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(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN HEART

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart is described. Also described are single exon nucleic acid probes expressed in the heart and their use in methods for detecting gene expression.

HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN HEART

CROSS REFERENCE TO RELATED APPLICATIONS

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The present application is a continuation-in-part of U.S. patent application serial nos. 09/632,366, filed August 3, 2000 and 09/608,408, filed June 30, 2000; claims the benefit under 35 U.S.C. s 119(e) of U.S.provisional patent application serial nos. 60/236,359, filed September 27, 2000, 60/234,687, filed September 21, 2000, 60/207,456, filed May 26, 2000, and 60/180,312, filed February 4, 2000; and further claims the benefit under 35 U.S.C. s 119(a) of UK patent application no. 0024263.6, filed October 4, 2000, the disclosures of which are incorporated herein by reference in their entireties.

REFERENCE TO SEQUENCE LISTING AND INCORPORATION BY REFERENCE THEREOF

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The present application includes a Sequence Listing in electronic format, filed pursuant to PCT Administrative Instructions 801 - 806 on a single CD-R disc, in triplicate, containing a file named pto_HEART.txt, created 24 January 2001, having 20,186,946 bytes. The Sequence Listing contained in said file on said disc is incorporated herein by reference in its entirety.

Field of the Invention

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The present invention relates to genome-derived single exon microarrays useful for verifying the expression of regions of genomic DNA predicted to encode protein. In particular, the present invention relates to unique genomederived single exon nucleic acid probes expressed in human

heart and single exon nucleic acid microarrays that include such probes.

Background of the Invention

For almost two decades following the invention of general techniques for nucleic acid sequencing, Sanger et al., Proc. Natl. Acad. Sci. USA 70(4):1209-13 (1973); Gilbert et al., Proc. Natl. Acad. Sci. USA 70(12):3581-4 (1973), these techniques were used principally as tools to further the understanding of proteins — known or suspected — about which a basic foundation of biological knowledge had already been built. In many cases, the cloning effort that preceded sequence identification had been both informed and directed by that antecedent biological understanding.

For example, the cloning of the T cell receptor for antigen was predicated upon its known or suspected cell type-specific expression, by its suspected membrane association, and by the predicted assembly of its gene via T cell-specific somatic recombination. Subsequent sequencing efforts at once confirmed and extended understanding of this family of proteins. Hedrick et al., Nature 308(5955):153-8 (1984).

More recently, however, the development of high
throughput sequencing methods and devices, in concert with
large public and private undertakings to sequence the human
and other genomes, has altered this investigational
paradigm: today, sequence information often precedes
understanding of the basic biology of the encoded protein
product.

One of the approaches to large-scale sequencing is predicated upon the proposition that expressed sequences — that is, those accessible through isolation of mRNA — are of greatest initial interest. This "expressed sequence tag" ("EST") approach has already yielded vast

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amounts of sequence data (see for example Adams et al., Science 252:1651 (1991); Williamson, Drug Discov. Today 4:115 (1999)). For nucleic acids sequenced by this approach, often the only biological information that is known a priori with any certainty is the likelihood of biologic expression itself. By virtue of the species and tissue from which the mRNA had originally been obtained, most such sequences are also annotated with the identity of the species and at least one tissue in which expression appears likely.

More recently, the pace of genomic sequencing has accelerated dramatically. When genomic DNA serves as the initial substrate for sequencing efforts, expression cannot be presumed; often the only a priori biological information about the sequence includes the species and chromosome (and perhaps chromosomal map location) of origin.

With the ever-accelerating pace of sequence accumulation by directed, EST, and genomic sequencing approaches — and in particular, with the accumulation of sequence information from multiple genera, from multiple species within genera, and from multiple individuals within a species — there is an increasing need for methods that rapidly and effectively permit the functions of nucleic sequences to be elucidated. And as such functional information accumulates, there is a further need for methods of storing such functional information in meaningful and useful relationship to the sequence itself; that is, there is an increasing need for means and apparatus for annotating raw sequence data with known or predicted functional information.

Although the increase in the pace of genomic sequencing is due in large part to technological changes in sequencing strategies and instrumentation, Service, Science 280:995 (1998); Pennisi, Science 283: 1822-1823 (1999),

35 there is an important functional motivation as well.

While it was understood that the EST approach would rarely be able to yield sequence information about the noncoding portions of the genome, it now also appears the EST approach is capable of capturing only a fraction of a genome's actual expression complexity.

For example, when the C. elegans genome was fully sequenced, gene prediction algorithms identified over 19,000 potential genes, of which only 7,000 had been found by EST sequencing. C. elegans Sequencing Consortium, Science 282:2012 (1998). Analogously, the recently completed sequence of chromosome 2 of Arabidopsis predicts over 4000 genes, Lin et al., Nature, 402:761 (1999), of which only about 6% had previously been identified via EST sequencing efforts. Although the human genome has the 15 greatest depth of EST coverage, it is still woefully short of surrendering all of its genes. One recent estimate suggests that the human genome contains more than 146,000 genes, which would at this point leave greater than half of the genes undiscovered. It is now predicted that many genes, perhaps 20 to 50%, will only be found by genomic 20 sequencing.

There is, therefore, a need for methods that permit the functional regions of genomic sequence — and most importantly, but not exclusively, regions that function to encode genes — to be identified.

Much of the coding sequence of the human genome is not homologous to known genes, making detection of open reading frames ("ORFs") and predictions of gene function difficult. Computational methods exist for predicting coding regions in eukaryotic genomes. Gene prediction programs such as GRAIL and GRAIL II, Uberbacher et al., Proc. Natl. Acad. Sci. USA 88(24):11261-5 (1991); Xu et al., Genet. Eng. 16:241-53 (1994); Uberbacher et al., Methods Enzymol. 266:259-81 (1996); GENEFINDER, Solovyev et al., Nucl. Acids. Res. 22:5156-63 (1994); Solovyev et al.,

Ismb 5:294-302 (1997); and GENESCAN, Burge et al., J. Mol.
Biol. 268:78-94 (1997), predict many putative genes without
known homology or function. Such programs are known,
however, to give high false positive rates. Burset et al.,
5 Genomics 34:353-367 (1996). Using a consensus obtained by
a plurality of such programs is known to increase the
reliability of calling exons. from genomic sequence.
Ansari-Lari et al., Genome Res. 8(1):29-40 (1998)

Identification of functional genes from genomic

data remains, however, an imperfect art. For example, in
reporting the full sequence of human chromosome 21, the
Chromosome 21 Mapping and Sequencing Consortium reports
that prior bioinformatic estimates of human gene number may
need to be revised substantially downwards. Nature

405:311-199 (2000); Reeves, Nature 405:283-284 (2000).

Thus, there is a need for methods and apparatus that permit the functions of the regions identified bioinformatically — and specifically, that permit the expression of regions predicted to encode protein — readily to be confirmed experimentally.

Recently, the development of nucleic acid microarrays has made possible the automated and highly parallel measurement of gene expression. Reviewed in Schena (ed.), DNA Microarrays: A Practical Approach

25 (Practical Approach Series), Oxford University Press (1999) (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60 (1999); Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376).

It is common for microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, such as those from the I.M.A.G.E. consortium, Lennon et al., Genomics 33(1):151-2 (1996), or from the construction of "problem specific" libraries targeted at a particular biological question, R.S. Thomas

et al., Cancer Res. (in press). Such microarrays by definition can measure expression only of those genes found in EST libraries, and thus have not been useful as probes for genes discovered solely by genomic sequencing.

The utility of using whole genome nucleic acid microarrays to answer certain biological questions has been demonstrated for the yeast Saccharomyces cerevisiae. Risi et al., Science 278:680 (1997). The vast majority of yeast nuclear genes, approximately 95% however, are single 10 exon genes, i.e., lack introns, Lopez et al., RNA 5:1135-1137 (1999); Goffeau et al., Science 274:563-67 (1996), permitting coding regions more readily to be identified. Whole genome nucleic acid microarrays have not generally been used to probe gene expression from more complex 15 eukaryotic genomes, and in particular from those averaging more than one intron per gene.

Diseases of the heart and vascular system are a significant cause of human morbidity and mortality. Increasingly, genetic factors are being found that 20 contribute to predisposition, onset, and/or aggressiveness of most, if not all, of these diseases. Although mutations in single genes have on occasion been identified as causative, these disorders are for the most part believed to have polygenic etiologies. There is a need for methods 25 and apparatus that permit prediction, diagnosis and prognosis of diseases of the human heart, particularly those diseases with polygenic etiology.

Summary of the Invention

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The present invention solves these and other problems in the art by providing methods and apparatus for predicting, confirming, and displaying functional information derived from genomic sequence. The present invention also provides apparatus for verifying the

expression of putative genes identified within genomic sequence.

In particular, the invention provides novel genome-derived single exon nucleic acid microarrays useful for verifying the expression of putative genes identified within genomic sequence.

The present invention also provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

Accordingly, in a first aspect of the invention, there is provided a spatially-addressable set of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart, comprising a plurality of single exon nucleic acid probes according to any one of the nucleotide sequences set out in SEQ ID NOs: 1 - 9,980 or a complementary sequence, or a portion of such a sequence.

By plurality is meant at least two, suitably at least 20 least 20, most suitably at least 100, preferably at least 1000 and, most preferably, upto 5000.

In one embodiment of the first aspect, each of said plurality of probes is separately and addressably amplifiable.

In an alternative embodiment, each of said plurality of probes is separately and addressably isolatable from said plurality.

In a preferred embodiment, each of said plurality of probes is amplifiable using at least one common primer.

Preferably, each of said plurality of probes is amplifiable using a first and a second common primer.

In yet another embodiment, said set of single exon nucleic acid probes comprises between 50 - 20,000 probes, for example, 50 - 5000.

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Suitably, said set of single exon nucleic acid

probes comprises at least 50 - 1000 discrete single exon nucleic acid probes having a sequence as set out in any of SEQ ID NOS.: 1 - 19,771 or a complimentary sequence, or a portion of such a sequence.

Preferably, the average length of the single exon nucleic acid probes is between 200 and 500 bp. It is preferred that the average length should be at least 200bp, suitably at least 250bp, most suitably at least 300bp, preferably at least 400bp and, most preferably, 500 bp.

In another embodiment, the single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence. It is preferred that at least 50%, suitably at least 60%, most suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.

In another preferred embodiment, said single exon nucleic acid lack homopolymeric stretches of A or T. It is preferred that at least 50%, suitably at least 60%, most suitably at least 70%, preferably at least 75%, more preferably at least 80, 85, 90, 95 or 99% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.

Preferably, a spatially-addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention is is addressably disposed upon a substrate.

Suitable substrates include a filter membrane which may, preferably, be nitrocellulose or nylon. The

30 nylon may preferably, be positively-charged. Other suitable substrates include glass, amorphous silicon, crystalline silicon, and plastic. Further suitable materials include polymethylacrylic, polyethylene, polypropylene, polyacrylate, polymethylmethacrylate, polyvinylchloride,

35 polytetrafluoroethylene, polystyrene, polycarbonate,

polyacetal, polysulfone, celluloseacetate, cellulosenitrate, nitrocellulose, and mixtures thereof.

In a second aspect of the invention, there is provided a microarray comprising a spatially addressable set of single exon nucleic acid probes in accordance with the first aspect of the invention.

In one embodiment, a genome-derived single-exon microarray is packaged together with such an ordered set of amplifiable probes corresponding to the probes, or one or more subsets of probes, thereon. In alternative embodiments, the ordered set of amplifiable probes is packaged separately from the genome-derived single exon microarray.

In another aspect, the invention provides genomederived single exon nucleic acid probes useful for gene
expression analysis, and particularly for gene expression
analysis by microarray. In particular embodiments of this
aspect, the present invention provides human single-exon
probes that include specifically-hybridizable fragments of
SEQ ID Nos. 9,981 - 19,771, wherein the fragment hybridizes
at high stringency to an expressed human gene. In
particular embodiments, the invention provides single exon
probes comprising SEQ ID Nos. 1 - 9,980.

Accordingly, in a third aspect of the invention,

there is provided a single exon nucleic acid probe for
measuring human gene expression in a sample derived from
human heart which is a nucleic acid molecule comprising a
nucleotide sequence as set out in any of SEQ ID NOs.: 1
9,980 or a complementary sequence or a fragment thereof

wherein said probe hybridizes at high stringency to a
nucleic acid expressed in the human heart.

In one embodiment, a single exon nucleic acid probe in accordance with the third aspect comprises a nucleotide sequence as set out in any of SEQ ID NOs.: 9,981

35 - 19,771 or a complementary sequence or a fragment thereof.

In a fourth aspect of the invention, there is provided a single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of SEQ ID NOs.: 19,772 - 29,119 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human heart.

Preferably, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention comprises between at least 15 and 50 contiguous nucleotides of said SEQ ID NO:. It is preferred that the single exon nucleic acid probe comprises at least 15, suitably at least 20, more suitably at least 25 or preferably at least 50 contiguous nucleotides of said SEQ ID NO:.

In another preferred embodiment, a single exon nucleic acid probe in accordance with the third or fourth aspects of the invention is between 3kb and 25kb in length. It is preferred that said probe is no more than 3kb, suitably no more than 5kb, more suitably no more than 10kb, preferably 15kb, more preferably 20kb or, most preferably, no more than 20kb in length.

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Preferably, a single exon nucleic acid probe in accordance with either the fifth or sixth aspect of the invention is DNA, preferably single-stranded DNA, RNA or PNA.

In another embodiment of either the third or fourth aspect of the invention, a single exon nucleic acid probe is detectably labeled. Suitable detectable labels include a radionuclide, a fluorescent label or a first member of a specific binding pair. Suitable fluorescent labels include dyes such as cyanine dyes, preferably Cy3 and Cy5 although other suitable dyes will be known to those skilled in the art.

In a particularly preferred embodiment, a single exon nucleic acid probe in accordance with either the third or fourth aspect of the invention lacks prokaryotic and bacteriophage vector sequence. In yet another embodiment, a single exon nucleic acid probe in accordance with either the third or fourth aspect of the invention lacks homopolymeric stretches of A or T.

In a fifth aspect of the invention, there is provided an amplifiable nucleic acid composition,

10 comprising:

with either of the third or fourth aspects of the invention; and at least one nucleic acid primer;

wherein said at least one primer is sufficient to prime enzymatic amplification of said probe.

In an sixth aspect of the invention, there is provided a method of measuring gene expression in a sample derived from human heart, comprising:

contacting the single exon microarray in

20 accordance with the second aspect of the invention, with a
first collection of detectably labeled nucleic acids, said
first collection of nucleic acids derived from mRNA of
human heart; and then

measuring the label detectably bound to each probe of said microarray.

In a seventh aspect of the invention, there is provided a method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then

detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

wherein said detectably labeled nucleic acids are derived from mRNA from the heart of said eukaryote, said probe is a single exon probe having a fragment identical in

sequence to, or complementary in sequence to, said predicted exon, said probe is included within a single exon microarray in accordance with the first aspect of the invention, and said fragment is selectively hybridizable at high stringency.

In a eighth aspect of the invention, there is provided a method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic 10 sequence in accordance with the seventh aspect of the invention; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

wherein a common pattern of expression of said exons in said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

In an ninth aspect of the invention, there is provided a nucleic acid sequence as set out in any of SEQ ID NOs: 1 - 19,771 wherein said sequence encodes a peptide.

In a tenth aspect of the invention, there is provided a peptide encoded by a sequence comprising a sequence as set out in any of SEQ ID NOs: 9,981 - 19,771, or a complementary sequence or coding portion thereof.

In a preferred embodiment, a peptide may be encoded by a sequence comprising a sequence set out in any of SEQ ID NOS.: 1 - 9,980.

In a further aspect, the invention provides peptides comprising an amino acid sequence translated from the DNA fragments, said amino acid sequences comprising SEQ ID NOS.: 9,981 - 19,771.

Accordingly in a eleventh aspect of the invention there is provided a peptide comprising a sequence as set

out in any of SEQ ID NOs: 19,772 - 29,119, or fragment thereof.

In another aspect, the invention provides means for displaying annotated sequence, and in particular, for displaying sequence annotated according to the methods and apparatus of the present invention. Further, such display can be used as a preferred graphical user interface for electronic search, query, and analysis of such annotated sequence.

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Detailed Description of the Invention

Definitions

15 As used herein, the term "microarray" and phrase "nucleic acid microarray" refer to a substrate-bound collection of plural nucleic acids, hybridization to each of the plurality of bound nucleic acids being separately detectable. The substrate can be solid or porous, planar 20 or non-planar, unitary or distributed.

As so defined, the term "microarray" and phrase "nucleic acid microarray" include all the devices so called in Schena (ed.), DNA Microarrays: A Practical Approach (Practical Approach Series), Oxford University Press (1999) (ISBN: 0199637768); Nature Genet. 21(1)(suppl):1 - 60 25 (1999); and Schena (ed.), Microarray Biochip: Tools and Technology, Eaton Publishing Company/BioTechniques Books Division (2000) (ISBN: 1881299376). As so defined, the term "microarray" and phrase "nucleic acid microarray" further include substrate-bound collections of plural nucleic acids in which the nucleic acids are distributably disposed on a plurality of beads, rather than on a unitary planar substrate, as is described, inter alia, in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); 35 in such case, the term "microarray" and phrase "nucleic

acid microarray" refer to the plurality of beads in aggregate.

As used herein with respect to a nucleic acid microarray, the term "probe" refers to the nucleic acid that is, or is intended to be, bound to the substrate; in such context, the term "target" thus refers to nucleic acid intended to be bound thereto by Watson-Crick complementarity. As used herein with respect to solution phase hybridization, the term "probe" refers to the nucleic acid of known sequence that is detectably labeled.

As used herein, the expression "probe comprising SEQ ID NO.", and variants thereof, intends a nucleic acid probe, at least a portion of which probe has either (i) the sequence directly as given in the referenced SEQ ID NO., or (ii) a sequence complementary to the sequence as given in the referenced SEQ ID NO., the choice as between sequence directly as given and complement thereof dictated by the requirement that the probe hybridize to mRNA.

As used herein, the term "open reading frame" and
the equivalent acronym "ORF" refer to that portion of an
exon that can be translated in its entirety into a sequence
of contiguous amino acids i.e. a nucleic acid sequence
that, in at least one reading frame, does not possess stop
codons; the term does not require that the ORF encode the
entirety of a natural protein.

As used herein, the term "amplicon" refers to a PCR product amplified from human genomic DNA, containing the predicted exon.

As used herein the term "exon" refers to the consensus prediction of the various exon and gene predicting algorithms i.e. a nucleic acid sequence bioinformatically predicted to encode a portion of a natural protein.

As used herein, the term "peptide" refers to a sequence of amino acids. The sequences referred to as

PEPTIDE SEQ ID NOS.: are the predicted peptide sequences that would be translated from one of the exons, or a portion thereof set out in exon SEQ ID NOS.:. The codons encoding the peptide are wholly contained within the exon.

As used herein, a "portions" of a defined nucleotide sequence or sequences can be and, preferably, are fragments unique to that sequence or to one or a combination of those sequences. A fragment unique to a nucleic acid molecule is one that is a signature for the larger nucleic acid molecule.

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As used herein, the phrase "expression of a probe" and its linguistic variants means that the ORF present within the probe, or its complement, is present within a target mRNA.

As used herein, "stringent conditions" refers to parameters well known to those skilled in the art. When a nucleic acid molecule is said to be hybridisable to another of a given sequence under "stringent conditions" it is meant that it is homologous to the given sequence.

As used herein, the phrase "specific binding pair" intends a pair of molecules that bind to one another with high specificity. Binding pairs are said to exhibit specific binding when they exhibit avidity of at least 10⁷, preferably at least 10⁸, more preferably at least 10⁹
liters/mole. Nonlimiting examples of specific binding pairs are: antibody and antigen; biotin and avidin; and biotin and streptavidin.

As used herein with respect to the visual display of annotated genomic sequence, the term "rectangle" means any geometric shape that has at least a first and a second border, wherein the first and second borders each are capable of mapping uniquely to a point of another visual object of the display.

As used herein, a "Mondrian" means a visual
35 display in which a single genomic sequence is annotated

with predicted and experimentally confirmed functional information.

5 Brief Description of the Drawings

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The present invention is further illustrated with reference to the following non-limiting figures and examples in which:

10 FIG. 1 illustrates a process for predicting functional regions from genomic sequence, confirming the functional activity of such regions experimentally, and associating and displaying the data so obtained in meaningful and useful relationship to the original sequence 15 data;

FIG. 2 further elaborates that portion of the process schematized in FIG. 1 for predicting functional regions from genomic sequence;

FIG. 3 illustrates a Mondrian visual display;
FIG. 4 presents a Mondrian showing a hypothetical annotated genomic sequence;

FIG. 5 is a histogram showing the distribution of ORF length and PCR products as obtained, with ORF length shown in black and PCR product length shown in dotted lines;

FIG. 6 is a histogram showing the distribution, among exons predicted according to the methods described, of expression as measured using simultaneous two color hybridization to a genome-derived single exon microarray.

The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), or expressed in all tissues tested ("10");

FIG. 7 is a pictorial representation of the expression of verified sequences that showed expression

with signal intensity greater than 3 in at least one tissue, with: FIG. 7A showing the expression as measured by microarray hybridization in each of the 10 measured tissues, and the expression as measured "bioinformatically" by query of EST, NR and SwissProt databases; with FIG. 7B showing the legend for display of physical expression (ratio) in FIG. 7A; and with FIG. 7C showing the legend for scoring EST hits as depicted in FIG. 7A;

FIG. 8 shows a comparison of normalized CY3

10 signal intensity for arrayed sequences that were identical to sequences in existing EST, NR and SwissProt databases or that were dissimilar (unknown), where black denotes the signal intensity for all sequence-verified products with a BLAST Expect ("E") value of greater than 1e-30 (1 x 10⁻³⁰)

15 ("unknown") and a dotted line denotes sequence-verified spots with a BLAST expect ("E") value of less than 1e-30 (1 x 10⁻³⁰) ("known");

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000), containing the carbamyl phosphate synthetase gene (AF154830.1); and

FIG. 10 is a Mondrian of BAC A049839.

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Methods and Apparatus for Predicting, Confirming,

25 Annotating, and Displaying Functional Regions From Genomic
Sequence Data

FIG. 1 is a flow chart illustrating in broad outline a process for predicting functional regions from genomic sequence, confirming and characterizing the functional activity of such regions experimentally, and then associating and displaying the information so obtained in meaningful and useful relationship to the original sequence data.

The initial input into process 10 of the present

invention is drawn from one or more databases 100
containing genomic sequence data. Because genomic sequence
is usually obtained from subgenomic fragments, the sequence
data typically will be stored in a series of records

corresponding to these subgenomic sequenced fragments.

Some fragments will have been catenated to form larger
contiguous sequences ("contigs"); others will not. A
finite percentage of sequence data in the database will
typically be erroneous, consisting inter alia of vector

sequence, sequence created from aberrant cloning events,
sequence of artificial polylinkers, and sequence that was
erroneously read.

Each sequence record in database 100 will minimally contain as annotation a unique sequence
identifier (accession number), and will typically be annotated further to identify the date of accession, species of origin, and depositor. Because database 100 can contain nongenomic sequence, each sequence will typically be annotated further to permit query for genomic sequence.

Chromosomal origin, optionally with map location, can also be present. Data can be, and over time increasingly will be, further annotated with additional information, in part through use of the present invention, as described below. Annotation can be present within the data records, in information external to database 100 and linked to the records thereto, or through a combination of the two.

Databases useful as genomic sequence database 100 in the present invention include GenBank, and particularly include several divisions thereof, including the

30 htgs(draft), NT (nucleotide, command line), and NR (nonredundant) divisions. GenBank is produced by the National Institutes of Health and is maintained by the National Center for Biotechnology Information (NCBI).

Databases of genomic sequence from species other than

35 human, such as mouse, rat, Arabidopsis, C. elegans, C.

brigsii, Drosophila, zebra fish, and other higher eukaryotic organisms will also prove useful as genomic sequence database 100.

Genomic sequence obtained by query of genomic

5 sequence database 100 is then input into one or more
processes 200 for identification of regions therein that
are predicted to have a biological function as specified by
the user. Such functions include, but are not limited to,
encoding protein, regulating transcription, regulating

10 message transport after transcription into mRNA, regulating
message splicing after transcription into mRNA, of
regulating message degradation after transcription into
mRNA, and the like. Other functions include directing
somatic recombination events, contributing to chromosomal

15 stability or movement, contributing to allelic exclusion or
X chromosome inactivation, and the like.

The particular genomic sequence to be input into process 200 will depend upon the function for which relevant sequence is to be identified as well as upon the approach chosen for such identification. Process step 200 can be iterated to identify different functions within a given genomic region. In such case, the input often will be different for the several iterations.

Sequences predicted to have the requisite

25 function by process 200 are then input into process 300,
where a subset of the input sequences suitable for
experimental confirmation is identified. Experimental
confirmation can involve physical and/or bioinformatic
assay. Where the subsequent experimental assay is

30 bioinformatic, rather than physical, there are fewer
constraints on the sequences that can be tested, and in
this latter case therefore process 300 can output the
entirety of the input sequence.

The subset of sequences output from process 300 is then used in process 400 for experimental verification

and characterization of the function predicted in process 200, which experimental verification can, and often will, include both physical and bioinformatic assay.

Process 500 annotates the sequence data with the functional information obtained in the physical and/or bioinformatic assays of process 400. Such annotation can be done using any technique that usefully relates the functional information to the sequence, as, for example, by incorporating the functional data into the sequence data record itself, by linking records in a hierarchical or relational database, by linking to external databases, by a combination thereof, or by other means well known within the database arts. The data can even be submitted for incorporation into databases maintained by others, such as GenBank, which is maintained by NCBI.

As further noted in FIG. 1, additional annotation can be input into process 500 from external sources 600.

The annotated data is then displayed in process 800, either before, concomitantly with, or after optional storage 700 on nontransient media, such as magnetic disk, optical disc, magnetooptical disk, flash memory, or the like.

FIG. 1 shows that the experimental data output from process 400 can be used in each preceding step of process 10: e.g., facilitating identification of functional sequences in process 200, facilitating identification of an experimentally suitable subset thereof in process 300, and facilitating creation of physical and/or informational substrates for, and performance of subsequent assay, of functional sequences in process 400.

Information from each step can be passed directly to the succeeding process, or stored in permanent or interim form prior to passage to the succeeding process.

Often, data will be stored after each, or at least a plurality, of such process steps. Any or all process steps

can be automated.

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FIG. 2 further elaborates the prediction of functional sequence within genomic sequence according to process 200.

Genomic sequence database 100 is first queried 20 for genomic sequence.

The sequence required to be returned by query 20 will depend, in the first instance, upon the function to be identified.

10 For example, genomic sequences that function to encode protein can be identified inter alia using gene prediction approaches, comparative sequence analysis approaches, or combinations of the two. In gene prediction analysis, sequence from one genome is input into process
15 200 where at least one, preferably a plurality, of algorithmic methods are applied to identify putative coding regions. In comparative sequence analysis, by contrast, corresponding, e.g., syntenic, sequence from a plurality of sources, typically a plurality of species, is input into
20 process 200, where at least one, possibly a plurality, of algorithmic methods are applied to compare the sequences and identify regions of least variability.

The exact content of query 20 will also depend upon the database queried. For example, if the database contains both genomic and nongenomic sequence, perhaps derived from multiple species, and the function to be determined is protein coding regions in human genomic sequence, the query will accordingly require that the sequence returned be genomic and derived from humans.

Query 20 can also incorporate criteria that compel return of sequence that meets operative requirements of the subsequent analytical method. Alternatively, or in addition, such operative criteria can be enforced in subsequent preprocess step 24.

For example, if the function sought to be

identified is protein coding, query 20 can incorporate criteria that return from genomic sequence database 100 only those sequences present within contigs sufficiently long as to have obviated substantial fragmentation of any 5 given exon among a plurality of separate sequence fragments.

Such criteria can, for example, consist of a required minimal individual genomic sequence fragment length, such as 10 kb, more typically 20 kb, 30 kb, 40kb, 10 and preferably 50 kb or more, as well as an optional further or alternative requirement that sequence from any given clone, such as a bacterial artificial chromosome ("BAC"), be presented in no more than a finite maximal number of fragments, such as no more than 20 separate pieces, more typically no more than 15 fragments, even more typically no more than about 10 - 12 fragments.

Results using the present invention have shown that genomic sequence from bacterial artificial chromosomes (BACs) is sufficient for gene prediction analysis according 20 to the present invention if the sequence is at least 50 kb in length, and if additionally the sequence from any given BAC is presented in fewer than 15, and preferably fewer than 10, fragments. Accordingly, query 20 can incorporate a requirement that data accessioned from BAC sequencing be in fewer than 15, preferably fewer than 10, fragments.

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An additional criterion that can be incorporated into the query can be the date, or range of dates, of sequence accession. Although the process has been described above as if genomic sequence database 100 were static, it is of course understood that the genomic sequence databases need not be static, and indeed are typically updated on a frequent, even hourly, basis. as further described in Examples 1 and 2, infra, it is possible to query the database for newly added sequence, either newly added after an absolute date, or newly added

relative to a prior analysis performed using the methods and apparatus of the present invention. In this way, the process herein described can incorporate a dynamic, temporal component.

One utility of such temporal limitation is to identify, from newly accessioned genomic sequence, the presence of novel genes, particularly those not previously identified by EST sequencing (or other sequencing efforts that are similarly based upon gene expression). As further described in Example 1, such an approach has shown that newly accessioned human genomic sequence, when analyzed for sequences that function to encode protein, readily identifies genes that are novel over those in existing EST and other expression databases. This makes the methods of the present invention extremely powerful gene discovery tools. And as would be appreciated, such gene discovery can be performed using genomic sequence from species other than human.

If query 20 incorporates multiple criteria, such 20 as above-described, the multiple criteria can be performed as a series of separate queries or as a single query, depending in part upon the query language, the complexity of the query, and other considerations well known in the database arts.

If query 20 returns no genomic sequence meeting the query criteria, the negative result can be reported by process 22, and process 200 (and indeed, entire process 10) ended 23, as shown. Alternatively, or in addition to report and termination of the initial inquiry, a new query 20 can be generated that takes into account the initial negative result.

When query 20 returns sequence meeting the query criteria, the returned sequence is then passed to optional preprocessing 24, suitable and specific for the desired analytical approach and the particular analytical methods

thereof to be used in process 25.

Preprocessing 24 can include processes suitable for many approaches and methods thereof, as well as processes specifically suited for the intended subsequent analysis.

Preprocessing 24 suitable for most approaches and methods will include elimination of sequence irrelevant to, or that would interfere with, the subsequent analysis. Such sequence includes repetitive sequence, such as Alu repeats and LINE elements, vector sequence, artificial sequence, such as artificial polylinkers, and the like. Such removal can readily be performed by identification and subsequent masking of the undesired sequence.

Identification can be effected by comparing the
genomic sequence returned by query 20 with public or
private databases containing known repetitive sequence,
vector sequence, artificial sequence, and other artifactual
sequence. Such comparison can readily be done using
programs well known in the art, such as CROSS_MATCH, or by
proprietary sequence comparison programs the engineering of
which is well within the skill in the art.

Alternatively, or in addition, undesirable, including artifactual, sequence can be identified algorithmically without comparison to external databases

25 and thereafter removed. For example, synthetic polylinker sequence can be identified by an algorithm that identifies a significantly higher than average density of known restriction sites. As another example, vector sequence can be identified by algorithms that identify nucleotide or codon usage at variance with that of the bulk of the genomic sequence.

Once identified, undesired sequence can be removed. Removal can usefully be done by masking the undesired sequence as, for example, by converting the specific nucleotide references to one that is unrecognized

by the subsequent bioinformatic algorithms, such as "X". Alternatively, but at present less preferred, the undesired sequence can be excised from the returned genomic sequence, leaving gaps.

Preprocessing 24 can further include selection from among duplicative sequences of that one sequence of highest quality. Higher quality can be measured as a lower percentage of, fewest number of, or least densely clustered occurrence of ambiguous nucleotides, defined as those nucleotides that are identified in the genomic sequence using symbols indicating ambiguity. Higher quality can also or alternatively be valued by presence in the longest contig.

Preprocessing 24 can, and often will, also
include formatting of the data as specifically appropriate
for passage to the analytical algorithms of process 25.
Such formatting can and typically will include, inter alia,
addition of a unique sequence identifier, either derived
from the original accession number in genomic sequence
database 100, or newly applied, and can further include
additional annotation. Formatting can include conversion
from one to another sequence listing standard, such as
conversion to or from FASTA or the like, depending upon the
input expected by the subsequent process.

25 Preprocessing, which can be optional depending upon the function desired to be identified and the informational requirements of the methods for effecting such identification, is followed by sequence processing 25, where sequences with the desired function are identified within the genomic sequence.

As mentioned above, such functions can include, but are not limited to, encoding protein, regulating transcription, regulating message transport after transcription into mRNA, regulating message splicing after transcription, of regulating message degradation, and the

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like. Other functions include directing somatic recombination events, contributing to chromosomal stability or movement, contributing to allelic exclusion or X chromosome inactivation, or the like.

The methods of the present invention are particularly useful for gene discovery, that is, for identifying, from genomic sequence, regions that function to encode genes, and in a particularly useful embodiment, for identifying regions that function to encode genes not 10 hitherto identified by expression-based or directed cloning and sequencing. In conjunction with verification using the novel single exon microarrays of the present invention, as further described below, the methods herein described become powerful gene discovery tools.

Accordingly, in a preferred embodiment of the present invention, process 25 is used to identify putative coding regions. Two preferred approaches in process 25 for identifying sequence that encodes putative genes are gene prediction and comparative sequence analysis.

Gene prediction can be performed using any of a number of algorithmic methods, embodied in one or more software programs, that identify open reading frames (ORFs) using a variety of heuristics, such as GRAIL, DICTION, and GENEFINDER. Comparative sequence analysis similarly can be performed using any of a variety of known programs that identify regions with lower sequence variability.

As further described in Example 1, below, gene finding software programs yield a range of results. For the newly accessioned human genomic sequence input in 30 Example 1, for example, GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data analyzed; GENEFINDER was second, calling 1%; and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

Increased reliability can be obtained when

consensus is required among several such methods. Although discussed herein particularly with respect to exon calling, consensus among methods will in general increase reliability of predicting other functions as well.

5 Thus, as indicated by query 26, sequence processing 25, optionally with preprocessing 24, can be repeated with a different method, with consensus among such iterations determined and reported in process 27.

Process 27 compares the several outputs for a 10 given input genomic sequence and identifies consensus among the separately reported results. The consensus itself, as well as the sequence meeting that consensus, is then stored in process 29a, displayed in process 29b, and/or output to process 300 for subsequent identification of a subset thereof suitable for assay. 15

Multiple levels of consensus can be calculated and reported by process 27. For example, as further described in Example 1, infra, process 27 can report consensus as between all specific pairs of methods of gene prediction, as consensus among any one or more of the pairs of methods of gene prediction, or as among all of the gene prediction algorithms used. Thus, in Example 1, process 27 reported that GRAIL and GENEFINDER programs agreed on 0.7% of genomic sequence, that GRAIL and DICTION agreed on 0.5% 25 of genomic sequence, and that the three programs together agreed on 0.25% of the data analyzed. Put another way, 0.25% of the genomic sequence was identified by all three of the programs as containing putative coding region.

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Furthermore, consensus can be required among 30 different approaches to identifying a chosen function.

For example, if the function desired to be identified is coding of protein sequence, and a first used approach to exon calling is gene prediction, the process can be repeated on the same input sequence, or subset 35 thereof, with another approach, such as comparative

sequence analysis. In such a case, where comparative sequence analysis follows gene prediction, the comparison can be performed not only on genomic nucleic acid sequence, but additionally or alternatively can be performed on the predicted amino acid sequence translated from the ORFs prior identified by the gene prediction approach.

Although shown as an iterative process, the multiple analyses required to achieve consensus can be done in series, in parallel, or some combination thereof.

Predicted functional sequence, optionally representing a consensus among a plurality of methods and approaches for determination thereof, is passed to process 300 for identification of a subset thereof for functional assay.

In the preferred embodiment of the methods of the present invention, wherein the function sought to be identified is protein coding, process 300 is used to identify a subset thereof suitable for experimental verification by physical and/or bioinformatic approaches.

For example, putative ORFs identified in process
200 can be classified, or binned, bioinformatically into
putative genes. This binning can be based inter alia upon
consideration of the average number of exons/gene in the
species chosen for analysis, upon density of exons that
have been called on the genomic sequence, and other
empirical rules. Thereafter, one or more among the genespecific ORFs can be chosen for subsequent use in gene
expression assay.

Where such subsequent gene expression assay uses
amplified nucleic acid, considerations such as desired
amplicon length, primer synthesis requirements, putative
exon length, sequence GC content, existence of possible
secondary structure, and the like can be used to identify
and select those ORFs that appear most likely successfully
to amplify. Where subsequent gene expression assay relies

upon nucleic acid hybridization, whether or not using amplified product, further considerations involving hybridization stringency can be applied to identify that subset of sequences that will most readily permit sequence-specific discrimination at a chosen hybridization and wash stringency. One particular such consideration is avoidance of putative exons that span repetitive sequence; such sequence can hybridize spuriously to nonspecific message, reducing specific signal in the hybridization.

For bioinformatic assay, there are fewer constraints on the sequences that can be tested experimentally, and in this latter case therefore process 300 can output the entirety of the input sequence.

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The subset of sequences identified by process 300 as suitable for use in assay is then used in process 400 to create the physical and/or informational substrate for experimental verification of the predictions made in process 200, and thereafter to assay those substrates.

As mentioned, the methods of the present
invention are particularly useful for identifying potential
coding regions within genomic sequence. In a preferred
embodiment of process 400, therefore, the expression of the
sequences predicted to encode protein is verified. The
combination of the predictive and experimental methods
provides a powerful gene discovery engine.

Thus, in another aspect, the present invention provides methods and apparatus for verifying the expression of putative genes identified within genomic sequence. In particular, the invention provides a novel method of verifying gene expression in which expression of predicted ORFs is measured and confirmed using a novel type of nucleic acid microarray, the genome-derived single exon nucleic acid microarrays of the present invention.

Putative ORFs as predicted by a consensus of gene calling, particularly gene prediction, algorithms in

process 200, and as further identified as suitable by process 300, are amplified from genomic DNA using the polymerase chain reaction (PCR). Although PCR is conveniently used, other amplification approaches can also be used.

Amplification schemes can be designed to capture the entirety of each predicted ORF in an amplicon with minimal additional (that is, intronic or intergenic) sequence. Because ORFs predicted from human genomic sequence using the methods of the present invention differ in length, such an approach results in amplicons of varying length.

However, most predicted ORFs are shorter than 500 bp in length, and although amplicons of at least about 100 or 200 base pairs can be immobilized as probes on nucleic acid microarrays, early experimental results using the methods of the present invention have suggested that longer amplicons, at least about 400 or 500 base pairs, are more effective. Furthermore, certain advantages derive from application to the microarray of amplicons of defined size.

Therefore, amplification schemes can alternatively, and preferably, be designed to amplify regions of defined size, preferably at least about 300, 400 or 500 bp, centered about each predicted ORF. Such an approach results in a population of amplicons of limited size diversity, but that typically contain intronic and/or intergenic nucleic acid in addition to putative ORF.

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Conversely, somewhat fewer than 10% of ORFs predicted from human genomic sequence according to the methods of the present invention exceed 500 bp in length. Portions of such extended ORFs, preferably at least about 300,400 or 500 bp in length, can be amplified. However, it has been discovered that the percentage success at amplifying pieces of such ORFs is low, and that such putative exons are more effectively amplified when larger

fragments, at least about 1000 or 1500 bp, and even as large as 2000 bp are amplified.

thus input into one or more primer design programs, such as PRIMER3 (available online for use at http://www-genome.wi.mit.edu/cgi-bin/primer/), with a goal of amplifying at least about 500 base pairs of genomic sequence centered within or about ORFs predicted to be no more than about 500 bp, or at least about 1000 - 1500 bp of genomic sequence for ORFs predicted to exceed 500 bp in length, and the primers synthesized by standard techniques. Primers with the requisite sequences can be purchased commercially or synthesized by standard techniques.

Conveniently, a first predetermined sequence can

be added commonly to the ORF-specific 5' primer and a

second, typically different, predetermined sequence

commonly added to each 3' ORF-unique primer. This serves

to immortalize the amplicon, that is, serves to permit

further amplification of any amplicon using a single set of

primers complementary respectively to the common 5' and

common 3' sequence elements. The presence of these

"universal" priming sequences further facilitates later

sequence verification, providing a sequence common to all

amplicons at which to prime sequencing reactions. The

common 5' and 3' sequences further serve to add a cloning

site should any of the ORFs warrant further study.

Such predetermined sequence is usefully at least about 10, 12 or 15 nt in length, and usually does not exceed about 25 nt in length. The "universal" priming sequences used in the examples presented *infra* were each 16 nt long.

The genomic DNA to be used as substrate for amplification will come from the eukaryotic species from which the genomic sequence data had originally been obtained, or a closely related species, and can

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conveniently be prepared by well known techniques from somatic or germline tissue or cultured cells of the organism. See, e.g., Short Protocols in Molecular Biology: A Compendium of Methods from Current Protocols in

Molecular Biology, Ausubel et al. (eds.), 4th edition (April 1999), John Wiley & Sons (ISBN: 047132938X) and Maniatis et al., Molecular Cloning: A Laboratory Manual, 2nd edition (December 1989), Cold Spring Harbor Laboratory Press (ISBN: 0879693096). Many such prepared genomic DNAs are available commercially, with the human genomic DNAs additionally having certification of donor informed

consent.

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Although the intronic and intergenic material flanking putative coding regions in the amplicons could potentially interfere with hybridizations during microarray experiments, we have found, surprisingly, that differential expression ratios are not significantly affected. Rather, the predominant effect of exon size is to alter the absolute signal intensity, rather than its ratio. Equally surprising, the art had suggested that single exon probes would not provide sufficient signal intensity for high stringency hybridization analyses; we find that such probes not only provide adequate signal, but have substantial advantages, as herein described.

After partial purification, as by size exclusion spin column, with or without confirmation as to amplicon quality as by gel electrophoresis, each amplicon (single exon probe) is disposed in an array upon a support substrate.

Methods for creating microarrays by deposition and fixation of nucleic acids onto support substrates are well known in the art (Reviewed by Schena et al., see above).

Typically, the support substrate will be glass, although other materials, such as amorphous or crystalline

silicon or plastics. Such plastics include
polymethylacrylic, polyethylene, polypropylene,
polyacrylate, polymethylmethacrylate, polyvinylchloride,
polytetrafluoroethylene, polystyrene, polycarbonate,

polyacetal, polysulfone, celluloseacetate,
cellulosenitrate, nitrocellulose, or mixtures thereof, can
also be used. Typically, the support will be rectangular,
although other shapes, particularly circular disks and even
spheres, present certain advantages. Particularly
advantageous alternatives to glass slides as support
substrates for array of nucleic acids are optical discs, as
described in WO 98/12559.

The amplified nucleic acids can be attached covalently to a surface of the support substrate or, more typically, applied to a derivatized surface in a chaotropic agent that facilitates denaturation and adherence by presumed noncovalent interactions, or some combination thereof.

Robotic spotting devices useful for arraying
nucleic acids on support substrates can be constructed
using public domain specifications (The MGuide, version
2.0, http://cmgm.stanford.edu/pbrown/mguide/index.html), or
can conveniently be purchased from commercial sources
(MicroArray GenII Spotter and MicroArray GenIII Spotter,
Molecular Dynamics, Inc., Sunnyvale, CA). Spotting can
also be effected by printing methods, including those using
ink jet technology.

As is well known in the art, microarrays typically also contain immobilized control nucleic acids.

For controls useful in providing measurements of background signal for the genome-derived single exon microarrays of the present invention, a plurality of *E. coli* genes can readily be used. As further described in Example 1, 16 or 32 *E. coli* genes suffice to provide a robust measure of background noise in such microarrays.

As is well known in the art, the amplified product disposed in arrays on a support substrate to create a nucleic acid microarray can consist entirely of natural nucleotides linked by phosphodiester bonds, or

5 alternatively can include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained in the hybridization. If enzymatic amplification is used to produce the immobilized probes, the amplifying enzyme will impose certain further constraints upon the types of nucleic acid analogs that can be generated.

Although particularly described herein as using high density microarrays constructed on planar substrates, the methods of the present invention for confirming the expression of ORFs predicted from genomic sequence can use any of the known types of microarrays, as herein defined, including lower density planar arrays, and microarrays on nonplanar, nonunitary, distributed substrates.

using hybridization to lower density arrays, such as those constructed on membranes, such as nitrocellulose, nylon, and positively-charged derivatized nylon membranes. Further, gene expression can also be confirmed using nonplanar, bead-based microarrays such as are described in Brenner et al., Proc. Natl. Acad. Sci. USA 97(4):166501670 (2000); U.S. Patent No. 6,057,107; and U.S. Patent No. 5,736,330. In theory, a packed collection of such beads provides in aggregate a higher density of nucleic acid probe than can be achieved with spotting or lithography techniques on a single planar substrate.

Planar microarrays on solid substrates, however, provide certain useful advantages, including high throughput and compatibility with existing readers. For example, each standard microscope slide can include at least 1000, typically at least 2000, preferably 5000 and

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upto 10,000 - 50,000 or more nucleic acid probes of discrete sequence. The number of sequences deposited will depend on their required application.

Each putative gene can be represented in the

array by a single predicted ORF. Alternatively, genes can
be represented by more than one predicted ORF. For
purposes of measuring differential splicing, more than one
predicted ORF will be provided for a putative gene. And as
is well known in the art, each probe of defined sequence,
representing a single predicted ORF, can be deposited in a
plurality of locations on a single microarray to provide
redundancy of signal.

The genome-derived single exon microarrays described above differ in several fundamental and

15 advantageous ways from microarrays presently used in the gene expression art, including (1) those created by deposition of mRNA-derived nucleic acids, (2) those created by in situ synthesis of oligonucleotide probes, and (3) those constructed from yeast genomic DNA.

Most nucleic acid microarrays that are in use for study of eukaryotic gene expression have as immobilized probes nucleic acids that are derived — either directly or indirectly — from expressed message. As discussed above, it is common, for example, for such microarrays to be derived from cDNA/EST libraries, either from those previously described in the literature, see Lennon et al., or from the de novo construction of "problem specific" libraries targeted at a particular biological question, R.S. Thomas et al., Cancer Res. (in press). Such microarrays are herein collectively denominated "EST microarrays".

Such EST microarrays by definition can measure expression only of those genes found in EST libraries, shown herein to represent only a fraction of expressed genes. Furthermore, such libraries — and thus microarrays

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based thereupon - are biased by the tissue or cell type of message origin, by the expression levels of the respective genes within the tissues, and by the ability of the message successfully to have been reverse-transcribed and cloned.

Thus, as further discussed in Example 1, the methods of the present invention enable sequences that do not appear in EST or other expression databases to be determined - subsequently arrayed for expression measurements could not, therefore, have been represented as 10 probes on an EST microarray. And as further demonstrated in the examples, infra, the remaining population of genes identified from genomic sequence by the methods of the present invention - that is, the one third of sequences that had previously been accessioned in EST or other 15 expression databases - are biased toward genes with higher expression levels.

Representation of a message in an EST and/or cDNA library depends upon the successful reverse transcription, optionally but typically with subsequent successful 20 cloning, of the message. This introduces substantial bias into the population of probes available for arraying in EST microarrays.

In contrast, neither reverse transcription nor cloning is required to produce the probes arrayed on the 25 genome-derived single exon microarrays of the present invention. And although the ultimate deposition of a probe on the genome-derived single exon microarray of the present invention depends upon a successful amplification from genomic material, a priori knowledge of the sequence of the 30 desired amplicon affords greater opportunity to recover any given probe sequence recalcitrant to amplification than is afforded by the requirement for successful reverse transcription and cloning of unknown message in EST approaches.

Thus, the genome-derived single exon microarrays

of the present invention present a far greater diversity of probes for measuring gene expression, with far less bias, than do EST microarrays presently used in the art.

As a further consequence of their ultimate origin from expressed message, the probes in EST microarrays often contain poly-A (or complementary poly-T) stretches derived from the poly-A tail of mature mRNA. These homopolymeric stretches contribute to cross-hybridization, that is, to a spurious signal occasioned by hybridization to the homopolymeric tail of a labeled cDNA that lacks sequence homology to the gene-specific portion of the probe.

In contrast, the probes arrayed in the genomederived single exon microarrays of the present invention lack homopolymeric stretches derived from message polyadenylation, and thus can provide more specific signal. Typically, at least about 50, 60 or 75% of the probes on the genome-derived single exon microarrays of the present invention lack homopolymeric regions consisting of A or T, where a homopolymeric region is defined for purposes herein as stretches of 25 or more, typically 30 or more, identical nucleotides.

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A further distinction, which also affects the specificity of hybridization, is occasioned by the typical derivation of EST microarray probes from cloned material. Because much of the probe material disposed as probes on EST microarrays is excised or amplified from plasmid, phage, or phagemid vectors, EST microarrays typically include a fair amount of vector sequence, more so when the probes are amplified, rather than excised, from the vector.

In contrast, the vast majority of probes in the genome-derived single exon microarrays of the present invention contain no prokaryotic or bacteriophage vector sequence, having been amplified directly or indirectly from genomic DNA. Typically, therefore, at least about 50, 60, 70 or 80% or more of individual exon-including probes

disposed on a genome-derived single exon microarray of the present invention lack vector sequence, and particularly lack sequences drawn from plasmids and bacteriophage.

Preferably, at least about 85, 90 or more than 90% of exonincluding probes in the genome-derived single exon microarray of the present invention lack vector sequence. With attention to removal of vector sequences through preprocessing 24, percentages of vector-free exon-including probes can be as high as 95 - 99%. The substantial absence of vector sequence from the genome-derived single exon microarrays of the present invention results in greater specificity during hybridization, since spurious crosshybridization to a probe vector sequence is reduced.

As a further consequence of excision or

15 amplification of probes from vectors in construction of EST
microarrays, the probes arrayed thereon often contain
artificial sequence, derived from vector polylinker
multiple cloning sites, at both 5' and 3' ends. The probes
disposed upon the genome-derived single exon microarrays

20 need have no such artificial sequence appended thereto.

As mentioned above, however, the ORF-specific primers used to amplify putative ORFs can include artificial sequences, typically 5' to the ORF-specific primer sequence, useful for "universal" (that is, 25 independent of ORF sequence) priming of subsequent amplification or sequencing reactions. When such "universal" 5' and/or 3' priming sequences are appended to the amplification primers, the probes disposed upon the genome-derived single exon microarray will include 30 artificial sequence similar to that found in EST microarrays. However, the genome-derived single exon microarray of the present invention can be made without such sequences, and if so constructed, presents an even smaller amount of nonspecific sequence that would 35 contribute to nonspecific hybridization.

Yet another consequence of typical use of cloned material as probes in EST microarrays is that such microarrays contain probes that result from cloning artifacts, such as chimeric molecules containing coding 5 region of two separate genes. Derived from genomic material, typically not thereafter cloned, the probes of the genome-derived single exon microarrays of the present invention lack such cloning artifacts, and thus provide greater specificity of signal in gene expression 10 measurements.

A further consequence of the cloned origin of probes on many EST microarrays is that the individual probes often have disparate sizes, which can cause the optimal hybridization stringency to vary among probes on a single microarray. In contrast, as discussed above, the 15 probes arrayed on the genome-derived single exon microarrays of the present invention can readily be designed to have a narrow distribution in sizes, with the range of probe sizes no greater than about 10% of the average size, typically no greater than about 5% of the average probe size.

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Because of their origin from fully- or partiallyspliced message, probes disposed upon EST arrays will often include multiple exons. The percentage of such exonspanning probes in an EST microarray can be calculated, on average, based upon the predicted number of exons/gene for the given species and the average length of the immobilized probes. For human genes, the near-complete sequence of human chromosome 22, Dunham et al., Nature 402(6761):489-95 (1999), predicts that human genes average 5.5 exons/gene. Even with probes of 200 - 500 bp, the vast majority of human EST microarray probes include more than one exon.

In contrast, by virtue of their origin from algorithmically identified ORFs in genomic sequence, the 35 probes in the genome-derived single exon microarrays of the

present invention can consist of individual exons. Thus, in contrast to EST microarrays, at least about 50, 60, 70, 75, 80, 85, 95 or 99% of probes deposited in the genomederived microarray of the present invention consist of, or include, no more than one predicted ORF.

This provides the ability, not readily achieved using EST microarrays, to use the genome-derived single exon microarrays of the present invention to measure tissue-specific expression of individual exons, which in turn allows differential splicing events to be detected and characterized, and in particular, allows the correlation of differential splicing to tissue-specific expression patterns.

Furthermore, the exons that are represented in

EST microarrays are often biased toward the 3' or 5' end of their respective genes, since sequencing strategies used for EST identification are so biased. In contrast, no such 3' or 5' bias necessarily inheres in the selection of exons for disposition on the genome-derived single exon

microarrays of the present invention.

Conversely, the probes provided on the genomederived single exon microarrays of the present invention
typically, but need not necessarily, include intronic
and/or intergenic sequence that is absent from EST

25 microarrays, which are derived from mature mRNA.
Typically, at least about 50, 60, 70, 80 or 90% of the
exon-including probes on the genome-derived single exon
microarrays of the present invention include sequence drawn
from noncoding regions. As discussed above, the additional
30 presence of noncoding region does not significantly
interfere with measurement of gene expression, and provides
the additional opportunity to assay prespliced RNA, and
thus measure such phenomena such as nuclear export control.

The genome-derived single exon microarrays of the present invention are also quite different from in situ

synthesis microarrays, where probe size is severely constrained by inadequacies in the photolithographic synthesis process.

Typically, probes arrayed on in situ synthesis 5 microarrays are limited to a maximum of about 25 bp. As a well known consequence, hybridization to such chips must be performed at low stringency. In order, therefore, to achieve unambiguous sequence-specific hybridization results, the in situ synthesis microarray requires 10 substantial redundancy, with concomitant programmed arraying for each probe of probe analogues with altered (i.e., mismatched) sequence.

In contrast, the longer probe length of the genome-derived single exon microarrays of the present invention allows much higher stringency hybridization and 15 Typically, therefore, exon-including probes on the genome-derived single exon microarrays of the present invention average at least about 100, 200, 300, 400 or 500 bp in length. By obviating the need for substantial 20 probe redundancy, this approach permits a higher density of probes for discrete exons or genes to be arrayed on the microarrays of the present invention than can be achieved for in situ synthesis microarrays.

A further distinction is that the probes in in 25 situ synthesis microarrays typically are covalently linked to the substrate surface. In contrast, the probes disposed on the genome-derived microarray of the present invention typically are, but need not necessarily be, bound noncovalently to the substrate.

Furthermore, the short probe size on in situ microarrays causes large percentage differences in the melting temperature of probes hybridized to their complementary target sequence, and thus causes large percentage differences in the theoretically optimum 35 stringency across the array as a whole.

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In contrast, the larger probe size in the microarrays of the present invention create lower percentage differences in melting temperature across the range of arrayed probes.

A further significant advantage of the microarrays of the present invention over in situ synthesized arrays is that the quality of each individual probe can be confirmed before deposition. In contrast, the quality of probes cannot be assessed on a probe-by-probe basis for the in situ synthesized microarrays presently being used.

The genome-derived single exon microarrays of the present invention are also distinguished over, and present substantial benefits over, the genome-derived microarrays from lower eukaryotes such as yeast. Lashkari et al., *Proc. Natl. Acad. Sci. USA* 94:13057-13062 (1997).

Only about 220 - 250 of the 6100 or so nuclear genes in Saccharomyces cerevisiae - that is, only about 4 - 5% - have standard, spliceosomal, introns, Lopez et al.,

Nucl. Acids Res. 28:85-86 (2000); Spingola et al., RNA 5(2):221-34 (1999). Furthermore, the entire yeast genome has already been sequenced. These two facts permit the ready amplification and disposition of single-ORF amplicons on such microarray without the requirement for antecedent use of gene prediction and/or comparative sequence analyses.

Thus, a significant aspect of the present invention is the ability to identify and to confirm expression of predicted coding regions in genomic sequence drawn from eukaryotic organisms that have a higher percentage of genes having introns than do yeast such as Saccharomyces cerevisiae, particularly in genomic sequence drawn from eukaryotes in which at least about 10, 20 or 50% of protein-encoding genes have introns. In preferred embodiments, the methods and apparatus of the present

invention are used to identify and confirm expression of novel genes from genomic sequence of eukaryotes in which the average number of introns per gene is at least about one, two or three or more.

After the physical substrate is prepared, experimental verification of predicted function is performed.

In a preferred embodiment of the present invention, where the function sought to be identified in genomic sequence is protein coding, experimental verification is performed by measuring expression of the putative ORFs, typically through nucleic acid hybridization experiments, and in particularly preferred embodiments, through hybridization to genome-derived single exon microarrays prepared as above- described.

Expression is conveniently measured and expressed for each probe in the microarray as a ratio of the expression measured concurrently in a plurality of mRNA sources, according to techniques well known in the microarray art, Reviewed in Schena et al., and as further described in Example 2, below. The mRNA source for the reference against which specific expression is measured can be drawn from a homogeneous mRNA source, such as a single cultured cell-type, or alternatively can be heterogeneous, as from a pool of mRNA derived from multiple tissues and/or cell types, as further described in Example 2, infra.

Ausubel et al. and Maniatis et al., or purchased commercially. The mRNA is then typically reverse—

30 transcribed in the presence of labeled nucleotides: the index source (that in which expression is desired to be measured) is reverse transcribed in the presence of nucleotides labeled with a first label, typically a fluorophore (fluorochrome; fluor; fluorescent dye); the reference source is reverse transcribed in the presence of

a second label, typically a fluorophore, typically fluorometrically-distinguishable from the first label. As further described in Example 2, infra, Cy3 and Cy5 dyes prove particularly useful in these methods. After partial purification of the index and reference targets, hybridization to the probe array is conducted according to standard techniques, typically under a coverslip.

After wash, microarrays are conveniently scanned using a commercial microarray scanning device, such as a 10 Gen3 Scanner (Molecular Dynamics, Sunnyvale, CA). Data on expression is then passed, with or without interim storage, to process 500, where the results for each probe are related to the original sequence.

Often, hybridization of target material to the
genome-derived single exon microarray will identify certain
of the probes thereon as of particular interest. Thus, it
is often desirable that the user be able readily to obtain
sufficient quantities of an individual probe, either for
subsequent arrayed deposition upon an additional support
substrate, often as part of a microarray having a plurality
of probes so identified, or alternatively or additionally
as a solitary solid-phase or solution-phase probe, for
further use.

Thus, in another aspect, the present invention

25 provides compositions and kits for the ready production of nucleic acids identical in sequence to, or substantially identical in sequence to, probes on the genome-derived single exon microarrays of the present invention.

In this aspect, a small quantity of each probe is 30 disposed, typically without attachment to substrate, in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher density arrays, such as are provided by microtiter plates 35 having 384, 864, 1536, 3456, 6144, or 9600 wells, and

although microtiter plates having physical depressions (wells) are conveniently used, any device that permits addressable withdrawal of reagent from fluidly-noncommunicating areas can be used.

In this aspect of the invention, therefore, a fluidly noncommunicating addressable ordered set of individual probes, corresponding to those on a genomederived single exon microarray, is provided, with each probe in sufficient quantity to permit amplification, such as by PCR. As earlier mentioned, the ORF-specific 5' primers used for genomic amplification can have a first common sequence added thereto, and the ORF-specific 3' primers used for genomic amplification can have a second, different, common sequence added thereto, thus permitting, in this preferred embodiment, the use of a single set of 5' and 3' primers to amplify any one of the probes from the amplifiable ordered set.

Each discrete amplifiable probe can also be packaged with amplification primers, solutes, buffers, etc., and can be provided in dry (e.g., lyophilized) form or wet, in the latter case typically with addition of agents that retard evaporation.

In another aspect of the present invention, a genome-derived single-exon microarray is packaged together with such an ordered set of amplifiable probes corresponding to the probes, or one or more subsets of probes, thereon. In alternative embodiments, the ordered set of amplifiable probes is packaged separately from the genome-derived single exon microarray.

In some embodiments, the microarray and/or ordered probe set are further packaged with recordable media that provide probe identification and addressing information, and that can additionally contain annotation information, such as gene expression data. Such recordable media can be packaged with the microarray, with the ordered

probe set, or with both.

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If the microarray is constructed on a substrate that incorporates recordable media, such as is described in international patent application no. WO 98/12559, then separate packaging of the genome-derived single exon microarray and the bioinformatic information is not required.

The amount of amplifiable probe material should be sufficient to permit at least one amplification sufficient for subsequent hybridization assay.

Although the use of high density genome-derived microarrays on solid planar substrates is presently a preferred approach for the physical confirmation and characterization of the expression of sequences predicted to encode protein, other types of microarrays (as herein defined) can also be used.

Furthermore, as earlier mentioned, experimental verification of the function predicted from genomic sequence in process 200 can be bioinformatic, rather than, or additional to, physical verification.

For example, where the function desired to be identified is protein coding, the predicted ORFs can be compared bioinformatically to sequences known or suspected of being expressed.

Thus, the sequences output from process 300 (or process 200), can be used to query expression databases, such as EST databases, SNP ("single nucleotide polymorphism") databases, known cDNA and mRNA sequences, SAGE ("serial analysis of gene expression") databases, and more generalized sequence databases that allow query for expressed sequences. Such query can be done by any sequence query algorithm, such as BLAST ("basic local alignment search tool"). The results of such query including information on identical sequences and information on nonidentical sequences that have diffuse or

focal regions of sequence homology to the query sequence — can then be passed directly to process 500, or used to inform analyses subsequently undertaken in process 200, process 300, or process 400.

Experimental data, whether obtained by physical or bioinformatic assay in process 400, is passed to process 500 where it is usefully related to the sequence data itself, a process colloquially termed "annotation". Such annotation can be done using any technique that usefully relates the functional information to the sequence, as, for example, by incorporating the functional data into the record itself, by linking records in a hierarchical or relational database, by linking to external databases, or by a combination thereof. Such database techniques are well within the skill in the art.

The annotated sequence data can be stored locally, uploaded to genomic sequence database 100, and/or displayed 800.

The methods and apparatus of the present

invention rapidly produce functional information from
genomic sequence. Coupled with the escalating pace at
which sequence now accumulates, the rapid pace of sequence
annotation produces a need for methods of displaying the
information in meaningful ways.

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FIG. 3 shows visual display 80 presenting a single genomic sequence annotated according to the present invention. Because of its nominal resemblance to artistic works of Piet Mondrian, visual display 80 is alternatively described herein as a "Mondrian".

Each of the visual elements of display 80 is aligned with respect to the genomic sequence being annotated (hereinafter, the "annotated sequence"). Given the number of nucleotides typically represented in an annotated sequence, representation of individual

35 nucleotides would rarely be readable in hard copy output of

display 80. Typically, therefore, the annotated sequence is schematized as rectangle 89, extending from the left border of display 80 to its right border. By convention herein, the left border of rectangle 89 represents the 5 first nucleotide of the sequence and the right border of rectangle 89 represents the last nucleotide of the sequence.

As further discussed below, however, the Mondrian visual display of annotated sequence can serve as a 10 convenient graphical user interface for computerized representation, analysis, and query of information stored electronically. For such use, the individual nucleotides can conveniently be linked to the X axis coordinate of rectangle 89. This permits the annotated sequence at any point within rectangle 89 readily to be viewed, either automatically - for example, by time-delayed appearance of a small overlaid window upon movement of a cursor or other pointer over rectangle 89 - or through user intervention, as by clicking a mouse or other pointing device at a point in rectangle 89.

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Visual display 80 is generated after user specification of the genomic sequence to be displayed. Such specification can consist of or include an accession number for a single clone (e.g., a single BAC accessioned into GenBank), wherein the starting and stopping 25 nucleotides are thus absolutely identified, or alternatively can consist of or include an anchor or fulcrum point about which a chosen range of sequence is anchored, thus providing relative endpoints for the sequence to be displayed. For example, the user can anchor 30 such a range about a given chromosomal map location, gene name, or even a sequence returned by query for similarity or identity to an input query sequence. When visual display 80 is used as a graphical user interface to computerized data, additional control over the first and 35

last displayed nucleotide will typically be dynamically selectable, as by use of standard zooming and/or selection tools.

Field 81 of visual display 80 is used to present
the output from process 200, that is, to present the
bioinformatic prediction of those sequences having the
desired function within the genomic sequence. Functional
sequences are typically indicated by at least one rectangle
83 (83a, 83b, 83c), the left and right borders of which
respectively indicate, by their X-axis coordinates, the
starting and ending nucleotides of the region predicted to
have function.

Where a single bioinformatic method or approach identifies a plurality of regions having the desired

15 function, a plurality of rectangles 83 is disposed horizontally in field 81. Where multiple methods and/or approaches are used to identify function, each such method and/or approach can be represented by its own series of horizontally disposed rectangles 83, each such horizontally disposed series of rectangles offset vertically from those representing the results of the other methods and approaches.

Thus, rectangles 83a in FIG. 3 represent the functional predictions of a first method of a first approach for predicting function, rectangles 83b represent the functional predictions of a second method and/or second approach for predicting that function, and rectangles 83c represent the predictions of a third method and/or approach.

Where the function desired to be identified is protein coding, field 81 is used to present the bioinformatic prediction of sequences encoding protein. For example, rectangles 83a can represent the results from GRAIL or GRAIL II, rectangles 83b can represent the results from GENEFINDER, and rectangles 83c can represent the

results from DICTION.

Optionally, and preferably, rectangles 83 collectively representing predictions of a single method and/or approach are identically colored and/or textured, and are distinguishable from the color and/or texture used for a different method and/or approach.

Alternatively, or in addition, the color, hue, density, or texture of rectangles 83 can be used further to report a measure of the bioinformatic reliability of the 10 prediction. For example, many gene prediction programs will report a measure of the reliability of prediction. Thus, increasing degrees of such reliability can be indicated, e.g., by increasing density of shading. Where display 80 is used as a graphical user interface, such 15 measures of reliability, and indeed all other results output by the program, can additionally or alternatively be made accessible through linkage from individual rectangles 83, as by time-delayed window ("tool tip" window), or by pointer (e.g., mouse)-activated link.

As earlier described, increased predictive reliability can be achieved by requiring consensus among methods and/or approaches to determining function. Thus, field 81 can include a horizontal series of rectangles 83 that indicate one or more degrees of consensus in predictions of function.

Although FIG. 3 shows three series of horizontally disposed rectangles in field 81, display 80 can include as few as one such series of rectangles and as many as can discriminably be displayed, depending upon the number of methods and/or approaches used to predict a given function.

Furthermore, field 81 can be used to show predictions of a plurality of different functions.

However, the increased visual complexity occasioned by such display makes more useful the ability of the user to select

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a single function for display. When display 80 is used as a graphical user interface for computer query and analysis, such function can usefully be indicated and userselectable, as by a series of graphical buttons or tabs (not shown in FIG. 3).

Rectangle 89 is shown in FIG. 3 as including interposed rectangle 84. Rectangle 84 represents the portion of annotated sequence for which predicted functional information has been assayed physically, with the starting and ending nucleotides of the assayed material indicated by the X axis coordinates of the left and right borders of rectangle 84. Rectangle 85, with optional inclusive circles 86 (86a, 86b, and 86c) displays the results of such physical assay.

Although a single rectangle 84 is shown in FIG.

3, physical assay is not limited to just one region of annotated genomic sequence. It is expected that an increasing percentage of regions predicted to have function by process 200 will be assayed physically, and that display 80 will accordingly, for any given genomic sequence, have an increasing number of rectangles 84 and 85, representing an increased density of sequence annotation.

Where the function desired to be identified is protein coding, rectangle 84 identifies the sequence of the 25 probe used to measure expression. In embodiments of the present invention where expression is measured using genome-derived single exon microarrays, rectangle 84 identifies the sequence included within the probe immobilized on the support surface of the microarray. As 30 noted supra, such probe will often include a small amount of additional, synthetic, material incorporated during amplification and designed to permit reamplification of the probe, which sequence is typically not shown in display 80.

Rectangle 87 is used to present the results of bioinformatic assay of the genomic sequence. For example,

where the function desired to be identified is protein coding, process 400 can include bioinformatic query of expression databases with the sequences predicted in process 200 to encode exons. And as earlier discussed,

because bioinformatic assay presents fewer constraints than does physical assay, often the entire output of process 200 can be used for such assay, without further subsetting thereof by process 300. Therefore, rectangle 87 typically need not have separate indicators therein of regions

submitted for bioinformatic assay; that is, rectangle 87 typically need not have regions therein analogous to rectangles 84 within rectangle 89.

Rectangle 87 as shown in FIG. 3 includes smaller rectangles 880 and 88. Rectangles 880 indicate regions

15 that returned a positive result in the bioinformatic assay, with rectangles 88 representing regions that did not return such positive results. Where the function desired to be predicted and displayed is protein coding, rectangles 880 indicate regions of the predicted exons that identify

20 sequence with significant similarity in expression databases, such as EST, SNP, SAGE databases, with rectangles 88 indicating genes novel over those identified in existing expression data bases.

Rectangles 880 can further indicate, through 25 color, shading, texture, or the like, additional information obtained from bioinformatic assay.

For example, where the function assayed and displayed is protein coding, the degree of shading of rectangles 880 can be used to represent the degree of sequence similarity found upon query of expression databases. The number of levels of discrimination can be as few as two (identity, and similarity, where similarity has a user-selectable lower threshold). Alternatively, as many different levels of discrimination can be indicated as can visually be discriminated.

Where display 80 is used as a graphical user interface, rectangles 880 can additionally provide links directly to the sequences identified by the query of expression databases, and/or statistical summaries thereof.

As with each of the precedingly-discussed uses of display 80 as a graphical user interface, it should be understood that the information accessed via display 80 need not be resident on the computer presenting such display, which often will be serving as a client, with the linked information resident on one or more remotely located

Rectangle 85 displays the results of physical assay of the sequence delimited by its left and right borders.

servers.

15 Rectangle 85 can consist of a single rectangle, thus indicating a single assay, or alternatively, and increasingly typically, will consist of a series of rectangles (85a, 85b, 85c) indicating separate physical assays of the same sequence.

Where the function assayed is gene expression, 20 and where gene expression is assayed as herein described using simultaneous two-color fluorescent detection of hybridization to genome-derived single exon microarrays, individual rectangles 85 can be colored to indicate the degree of expression relative to control. Conveniently, shades of green can be used to depict expression in the sample over control values, and shades of red used to depict expression less than control, corresponding to the spectra of the Cy3 and Cy5 dyes conventionally used for 30 respective labeling thereof. Additional functional information can be provided in the form of circles 86 (86a, 86b, 86c), where the diameter of the circle can be used to indicate expression intensity. As discussed infra, such relative expression (expression ratios) and absolute expression (signal intensity) can be expressed using

normalized values.

Where display 80 is used as a graphical user interface, rectangle 85 can be used as a link to further information about the assay. For example, where the assay is one for gene expression, each rectangle 85 can be used to link to information about the source of the hybridized mRNA, the identity of the control, raw or processed data from the microarray scan, or the like.

FIG. 4 is rendition of display 80 representing

gene prediction and gene expression for a hypothetical BAC, showing conventions used in the Examples presented infra.

BAC sequence ("Chip seq.") 89 is presented, with the physically assayed region thereof (corresponding to rectangle 84 in FIG. 3) shown in white. Algorithmic gene predictions are shown in field 81, with predictions by GRAIL shown, predictions by GENEFINDER, and predictions by DICTION shown. Within rectangle 87, regions of sequence that, when used to query expression databases, return identical or similar sequences ("EST hit") are shown as white rectangles (corresponding to rectangles 880 in FIG. 3), gray indicates low homology, and black indicates unknowns (where black and gray would correspond to rectangles 88 in FIG. 3).

Although FIGS. 3 and 4 show a single stretch of sequence, uninterrupted from left to right, longer sequences are usefully represented by vertical stacking of such individual Mondrians, as shown in FIGS. 9 and 10.

Single Exon Probes Useful For Measuring Gene Expression

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The methods and apparatus of the present invention rapidly produce functional information from genomic sequence. Where the function to be identified is protein coding, the methods and apparatus of the present invention rapidly identify and confirm the expression of

portions of genomic sequence that function to encode protein. As a direct result, the methods and apparatus of the present invention rapidly yield large numbers of single-exon nucleic acid probes, the majority from previously unknown genes, each of which is useful for measuring and/or surveying expression of a specific gene in one or more tissues or cell types.

It is, therefore, another aspect of the present invention to provide genome-derived single exon nucleic acid probes useful for gene expression analysis, and particularly for gene expression analysis by microarray.

Using the methods and genome-derived single-exon microarrays of the present invention, we have for example readily identified a large number of unique ORFs from human genomic sequence. Using single exon probes that encompass these ORFs, we have demonstrated, through microarray hybridization analysis, the expression of 9,980 of these ORFs in heart.

As would immediately be appreciated by one of skill in the art, each single exon probe having demonstrable expression in heart is currently available for use in measuring the level of its ORF's expression in heart.

Diseases of the heart and vascular system are a

25 significant cause of human morbidity and mortality.

Increasingly, genetic factors are being found that

contribute to predisposition, onset, and/or aggressiveness

of most, if not all, of these diseases. Although mutations

in single genes have on occasion been identified as

30 causative, these disorders are for the most part believed

to have polygenic etiologies.

For example, cardiovascular disease (CVD), which includes coronary heart disease, stroke, and peripheral arterial vascular disease, is the leading cause of death in the United States and other developed countries. In

developing regions, coronary heart disease and stroke are ranked second and third, respectively, as causes of mortality. In the United States alone, about 1 million deaths (about 42% of total deaths per year) result from CVD 5 each year. CVD is also a significant cause of morbidity, with about 1.5 million people suffering myocardial infarction, and about 500,000 suffering strokes in the United States each year. With risk for CVD increasing with age, and an increasingly aging population, CVD will continue to be a major health problem into the future.

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CVD is caused by arterial lesions that begin as fatty streaks, which consist of lipid-laden foam cells, and develop into fibrous plaques. The atherosclerotic plaque may grow slowly, and over several decades may produce a 15 severe stenosis or result in arterial occlusion. plaques are stable, but other, more unstable, ones may rupture and induce thrombosis. The thrombi may embolize, rapidly occluding the lumen and leading to myocardial infarction or acute ischemic syndrome.

20 Risk factors for CVD include age and gender. addition, a family history of CVD significantly increases risk, indicating a genetic basis for development of this disease complex. Obesity, especially truncal obesity, the cause of which is suspected to be genetic, is yet another risk factor for CVD. Familial disorders such as hyperlipidemia, hypoalphalipoproteinemia, hypertriglyceridemia, hypercholesterolemia, hyperinsulinemia, homocystinuria, and dysbetalipoproteinemia, all of which lead to lipid or lipoprotein abnormalities, can predispose one to the 30 development of CVD. Both insulin-dependent and noninsulin-dependent diabetes mellitus, both of which have genetic components, have been also linked to the development of atherosclerosis.

The literature is replete with evidence for

genetic causes of cardiovascular diseases. For example, studies by Allayee et al., Am. J. Hum. Genet. 63:577-585(1998), indicated a genetic association between familial combined hyperlipidemia (FCHL) and small dense LDL particles. The studies also concluded that the genetic determinants for LDL particle size are shared, at least in part, among FCHL families and the more general population at risk for CVD. Juo et al., Am. J. Hum. Genet. 63: 586-594 (1998) demonstrated that small, dense LDL particles and elevated apolipoprotein B levels, both of which are commonly found in members of FCHL families, share a common major gene plus individual polygenic components.

The common major gene was estimated to explain 37% of the variants of adjusted LDL particle size and 23% of the variants of adjusted apoB levels.

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The atherogenic lipoprotein phenotype (ALP) is a common heritable trait, symptoms of which include a prevalence of small, dense LDL particles, increased levels of triglyceride-rich lipoproteins, reduced levels of high density lipoprotein, and increased risk of CVD, particularly myocardial infarction. Both Nishina et al., Proc. Nat. Acad. Sci. 89: 708-712 (1992) and Rotter et al., Am. J. Hum. Genet. 58: 585-594(1996) demonstrated linkage between ALP and the LDLR locus. Rotter et al., supra, also reported linkage to the CETP locus on chromosome 16 and to the SOD1 locus on chromosome 6, and possibly also to the APOA1/APOC3/APOA4 cluster on chromosome 11.

Mutations in genes identified as components of lipid metabolism, e.g., apolipoprotein E (apoE) and LDL receptor (LDLR), have been shown to be associated with predisposition to the development of CVD. For example, several apoE variants had been found to be associated with familial dysbetalipoproteinemia, characterized by elevated plasma cholesterol and triglyceride levels and an increased risk for atherosclerosis (de Knijff et al., Mutat 4: 178-

194 (1994)). Mutations in the LDLR gene have been associated with the familial hypercholesterolemia, an autosomal dominant disorder characterized by elevation of serum cholesterol bound to low density lipoprotein (LDL), that can lead to increased susceptibility to CVD.

To date, mutations in numerous genes have been shown to be associated with increased CVD susceptibility. However, the identified genetic associations are believed not to account for all genetic contributions to CVD.

As yet another example, hypertension is a major health problem because of its high prevalence and its association with increased risk of CVD. Approximately 25% of all adults and over 60% of persons older than 60 years in the United States have high blood pressure.

Arterial or systemic hypertension is diagnosed when the average of two or more diastolic BP measurements on at least two subsequent visits is 90 mm Hg or more, or when the average of multiple systolic BP readings on two or more subsequent visits is consistently greater than 140 mm 20 Hg. Pulmonary hypertension is defined as pressure within the pulmonary arterial system elevated above the normal range; pulmonary hypertension may lead to right ventricle (RV) failure.

Hypertension, together with other cardiovascular risk factors, leads to atherosclerosis and other forms of CVD, primarily by damaging the vascular endothelium. In more than 40% of the U.S. population, hypertension is accompanied by hyperlipidemia and leads to the development of atherosclerotic plaques. In the absence of

30 hyperlipidemia, intimal thickening occurs. Nonatherosclerotic hypertension-induced vascular damage can lead to stroke or heart failure.

Familial diseases associated with secondary hypertension include familial renal disease, polycystic 35. kidney disease, medullary thyroid cancer, pheochromocytoma,

and hyperparathyroidism. Hypertension is also twice as common in patients with diabetes mellitus.

More than 95% of all hypertension cases are essential hypertension, that is, lack identifiable 5 antecedent clinical cause. Essential hypertension shows clustering in families and can result from a variety of genetic diseases. In most cases, high blood pressure results from a complex interaction of factors with both ' genetic and environmental components. The recent search for genes that contribute to the development of essential hypertension has shown that the disorder is polygenic in origin. However, with several exceptions (such as angiotensinogen, angiotensin receptor-1, beta-3 subunit of guanine nucleotide-binding protein, tumor necrosis factor 15 receptor-2, and "-adducin), the particular genes involved are still being sought.

Susceptibility loci for essential hypertension have been mapped to chromosomes 17 and 15q. Hasstedt et al., Am. J. Hum. Genet. 43: 14-22 (1988) measured red cell sodium in 1,800 normotensive members of 16 Utah pedigrees 20 ascertained through hypertensive or normotensive probands, siblings with early stroke death, or brothers with early coronary disease, and suggested that red blood cell sodium was determined by 4 alleles at a single locus. This major locus was thought to explain 29% of the variance in red cell sodium, and polygenic inheritance explained another 54.6%. A higher frequency of the high red blood cell sodium genotype in pedigrees in which the proband was hypertensive rather than normotensive provided evidence that this major locus increases susceptibility to hypertension.

From a study of systolic blood pressure in 278 pedigrees, Perusse et al., Am. J. Hum. Genet. 49: 94-105 (1991) reported that variability in systolic blood pressure is likely influenced by allelic variation of a single gene, with gender and age dependence. They also suggested that a

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single gene may be associated with a steeper increase of blood pressure with age among males and females.

There is strong evidence, however, for additional as yet uncharacterized, hypertension-associated loci on 5 other chromosomes.

For example, Xu et al., Am. J. Hum. Genet. 64: 1694-1701 (1999) carried out a systematic search for chromosomal regions containing genes that regulate blood pressure by scanning the entire autosomal genome using 367 10 polymorphic markers. Because of the sampling design, the number of sib pairs, and the availability of genotyped parents, this study represented one of the most powerful of its kind. Although no regions achieved a 5% genomewide significance level, maximum lod scores were greater than 2.0 for regions of chromosomes 3, 11, 15, 16, and 17.

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As another example, cardiac arrhythmias account for several thousand deaths each year. Arrhythmias such as ventricular fibrillation, which causes more than 300,000 sudden deaths annually in the United States alone, encompass a multitude of disorders. Another type of arrhythmia, idiopathic dilated cardiomyopathy, of which familial dilated cardiomyopathy accounts for 20-25%, is responsible for more than 10,000 deaths in the United States annually and is the predominant indication for cardiac transplantation.

Cardiac arrhythmias can be divided into bradyarrhythmias (slowed rhythms) or tachyarrhythmias (speeded rhythms). Bradyarrhythmias result from abnormalities of intrinsic automatic behavior or 30 conduction, primarily within the atrioventricular node and the His-Purkinje's network. Tachyarrhythmias are caused by altered automaticity, reentry, or triggered automaticity.

Bradyarrhythmias arising from suspected polygenic disorders include Long QT syndrome 4, atrioventricular block, familial sinus node disease, progressive cardiac

conduction defect, and familial cardiomyopathy.

Tachyarrhythmias with possible underlying polygenic causes include familial ventricular tachycardia, Wolff-Parkinson-White syndrome, familial arrhythmogenic right ventricular dysplasia, heart-hand syndrome V, Mal de Meleda, familial ventricular fibrillation, and familial noncompaction of left ventricular myocardium.

For some of the arrhythmias, one or more of the causative genes have been identified.

10 For example, atrioventricular block has been associated with mutations in the SCN5A gene, as well as mutations in a locus mapped to 19q13. Studies have shown linkage of familial sinus node disease to a marker on 10q22-q24. Familial ventricular tachycardia has been linked to mutations in genes encoding the G protein subunit alpha-i2 (GNAI1), and/or related genes. Examination of families with Wolff-Parkinson-White syndrome suggest an

autosomal dominant pattern of inheritance and evidence of linkage of the disorder to DNA markers on band 7q3.

Linkage analysis shows strong evidence for localization of a gene for Mal de Meleda disease on 8qter. Familial ventricular fibrillation can be caused by mutations in the cardiac sodium channel gene SCN5A. Familial noncompaction of left ventricular myocardium has been linked to mutations in the gene encoding tafazzin (TAZ), or in the FK506-

in the gene encoding tafazzin (TAZ), or in the FK506binding protein 1A gene (FKBP1A).

Familial dilated cardiomyopathy is characterized by an autosomal dominant pattern of inheritance with agerelated penetrance. The linkage of familial dilated cardiomyopathy to several loci indicate that it is polygenic. These loci include CMD1A on 1p11-q11, CMD1B on 9q13, CMD1C on 10q21, CMD1D on 1q32, CMD1E on 3p, CMD1F on 6q, CMD1G on 2q31, CMD1H on 2q14-q22, and CMD1I, which results from mutation in the DES gene on 2q35.

In addition, cardiomyopathy can also be caused by

mutations in the ACTC gene, the cardiac beta-myosin heavy chain gene (MYH7), or the cardiac troponin T gene.

Familial arrhythmogenic right ventricular dysplasia is inherited as an autosomal dominant with reduced penetrance and is one of the major genetic causes of juvenile sudden death. It is estimated that the prevalence of familial arrhythmogenic right ventricular dysplasia ranges from 6 per 10,000 in the general population to 4.4 per 1,000 in some areas.

Several loci for familial arrhythmogenic right ventricular dysplasia have been mapped indicating that this disease is also polygenic in nature. These loci include ARVD1 on 14q23-q24, ARVD2 on 1q42-q43, ARVD3 on 14q12-q22, ARVD4 on 2q32.1-q32.3, ARVD5 on 3p23, and ARVD6 on 10p14-p12.

Progressive cardiac conduction defect (PCCD), also called Lenegre-Lev disease, is one of the most common cardiac conduction diseases. It is characterized by progressive alteration of cardiac conduction through the 20 His-Purkinje system with right or left bundle branch block and widening of QRS complexes, leading to complete atrioventricular block and ultimately causing syncope and sudden death. It represents the major cause of pacemaker implantation in the world (0.15 implantations per 1,000 25 inhabitants per year in developed countries). The cause of PCCD is unknown but familial cases with right bundle branch block have been reported suggesting that at least some cases are of genetic origin. Reports have linked PCCD to HB1 on 19q13.3, and to mutations in the SCN5A gene (Schott 30 et al., Nature Genet. 23: 20-21 (1999)).

As yet a further example, congenital heart disease occurs at a rate of 8 per 1000 live births, which corresponds to approximately 32,000 infants with newly diagnosed congenital heart disease each year in the United States. Twenty percent of infants with congenital heart

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disease die within the first year of life. Approximately 80% of the first-year survivors live to reach adulthood. Congenital heart disease also has economic impact due to the estimated 20,000 surgical procedures performed to correct circulatory defects in these patients. The estimated number of adults with congenital heart disease in the United States is currently about 900,000.

In 90% of patients, congenital heart disease is attributable to multifactorial inheritance. Only 5-10% of malformations are due to primary genetic factors, which are either chromosomal or a result of a single mutant gene.

The most common congenital heart disease found in adults is bicuspid aortic valve. This defect occurs in 2% of the general population and accounts for approximately 15 50% of operated cases of aortic stenosis in adults. Atrial septal defect is responsible for 30-40% of congenital heart disease seen in adults. The most common congenital cardiac defect observed in the pediatric population is ventricular septal defect, which accounts for 15-20% of all congenital Tetralogy of Fallot is the most common cyanotic 20 congenital anomaly observed in adults. Other congenital heart diseases include Eisenmenger's syndrome, patent ductus arteriosus, pulmonary stenosis, coarctation of the aorta, transposition of the great arteries, tricuspid 25 atresia, univentricular heart, Ebstein's anomaly, and double-outlet right ventricle.

A number of studies have identified putative genetic loci associated with one or more congenital heart diseases.

Congenital heart disease affects more than 40% of all Down syndrome patients. The candidate chromosomal region containing the putative gene or genes for congenital heart disease associated with Down syndrome is 21q22.2-q22.3, between ETS2 and MX1.

35 DiGeorge syndrome (DGS) is characterized by

several symptoms including outflow tract defects of the heart such as teratology of Fallot. Most cases result from a deletion of chromosome 22q11.2 (the DiGeorge syndrome chromosome region, or DGCR). The 22q11 deletion is the second most common cause of congenital heart disease after Down syndrome. Several genes are lost in this deletion including the putative transcription factor TUPLE1. This deletion is associated with a variety of phenotypes, e.g., Shprintzen syndrome; conotruncal anomaly face (or Takao syndrome); and isolated outflow tract defects of the heart including Tetralogy of Fallot, truncus arteriosus, and interrupted aortic arch.

Whereas 90% of cases of DGS may now be attributed to a 22q11 deletion, other associated chromosome defects

15 have been identified. For example, Greenberg et al., Am.

J. Hum. Genet. 43:605-611 (1988), reported 1 case of DGS with del10p13 and one with a 18q21.33 deletion. Fukushima et al., Am. J. Hum. Genet. 51 (suppl.):A80 (1992) reported linkage with a deletion of 4q21.3-q25. Gottlieb et al.,

20 Am. J. Hum. Genet. 62: 495-498 (1998) concluded that the deletion of more than 1 region on 10p could be associated with the DGS phenotype. The association of the DiGeorge syndrome with at least 2 and possibly more chromosomal locations suggests strongly the involvement of several

25 genes in this disease.

Digilio et al., J. Med. Genet. 34: 188-190 (1997), calculated empiric risk figures for recurrence of isolated Tetralogy of Fallot in families after exclusion of del(22q11), and concluded that gene(s) different from those located on 22q11 must be involved in causing familial aggregation of nonsyndromic Tetralogy of Fallot. Johnson et al., Am. J. Med. Genet. (1997) conducted a cytogenetic evaluation of 159 cases of Tetralogy of Fallot. They reported that a del(22q11) was identified in 14% who underwent fluorescence in situ hybridization (FISH) testing

awith the N25 cosmid probe.

Other congenital heart disease are also suspected to be of polygenic origin. For example, Holmes et al., Birth Defects Orig. Art. Ser. X(4): 228-230 (1974)

5 described familial clustering of hypoplastic left heart syndrome in siblings consistent with multifactorial causation.

Other significant diseases of the heart and vascular system are also believed to have a genetic, 10 typically polygenic, etiological component. These diseases include, for example, hypoplastic left heart syndrome, cardiac valvular dysplasia, Pfeiffer cardiocranial syndrome, oculofaciocardiodental syndrome, Kapur-Toriello syndrome, Sonoda syndrome, Ohdo Blepharophimosis syndrome, 15 heart-hand syndrome, Pierre-Robin syndrome, Hirschsprung disease, Kousseff syndrome, Grange occlusive arterial syndrome, Kearns-Sayre syndrome, Kartagener syndrome, Alagille syndrome, Ritscher-Schinzel syndrome, Ivemark syndrome, Young-Simpson syndrome, hemochromatosis, 20 Holzgreve syndrome, Barth syndrome, Smith-Lemli-Opitz syndrome, glycogen storage disease, Gaucher-like disease, Fabry disease, Lowry-Maclean syndrome, Rett syndrome, Opitz syndrome, Marfan syndrome, Miller-Dieker lissencephaly syndrome, mucopolysaccharidosis, Bruada syndrome, 25 humerospinal dysostosis, Phaver syndrome, McDonough syndrome, Marfanoid hypermobility syndrome, atransferrinemia, Cornelia de Lange syndrome, Leopard syndrome, Diamond-Blackfan anemia, Steinfeld syndrome, progeria, and Williams-Beuren syndrome.

The human genome-derived single exon nucleic acid probes and microarrays of the present invention are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of human heart and vascular system, particularly those diseases with polygenic etiology. With each of the single exon probes described herein shown to be

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expressed at detectable levels in human heart, and with about 2/3 of the probes identifying novel genes, the single exon microarrays of the present invention provide exceptionally high informational content for such studies.

For example, diagnosis (including differential diagnosis among clinically indistinguishable disorders), staging, and/or grading of a disease can be based upon the quantitative relatedness of a patient gene expression profile to one or more reference expression profiles known 10 to be characteristic of a given heart or vascular disease, or to specific grades or stages thereof.

In one embodiment, the patient gene expression profile is generated by hybridizing nucleic acids obtained directly or indirectly from transcripts expressed in the patient's heart or vascular tissues to the genome-derived single exon microarray of the present invention. Reference profiles are obtained similarly by hybridizing nucleic acids obtained directly or indirectly from transcripts expressed in heart or vascular tissue of individuals with 20 known disease. Methods for quantitatively relating gene expression profiles, without regard to the function of the protein encoded by the gene, are disclosed in WO 99/58720, incorporated herein by reference in its entirety.

In another approach, the genome-derived single exon probes and microarrays of the present invention can be 25 used to interrogate genomic DNA, rather than pools of expressed message; this latter approach permits predisposition to and/or prognosis of heart or vascular disease to be assessed through the massively parallel 30 determination of altered copy number, deletion, or mutation in the patient's genome of exons known to be expressed in human heart. The algorithms set forth in WO 99/58720 can be applied to such genomic profiles without regard to the function of the protein encoded by the interrogated gene.

The utility is specific to the probe; at

sufficiently high hybridization stringency, which stringencies are well known in the art — see Ausubel et al. and Maniatis et al. — each probe reports the level of expression of message specifically containing that ORF.

It should be appreciated, however, that the probes of the present invention, for which expression in the heart has been demonstrated are useful for both measurement in the heart and for survey of expression in other tissues.

Significant among such advantages is the presence of probes for novel genes.

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As mentioned above and further detailed in Examples 1 and 2, the methods described enable ORFs which are not present in existing expression databases to be identified. And the fewer the number of tissues in which the ORF can be shown to be expressed, the more likely the ORF will prove to be part of a novel gene: as further discussed in Example 2, ORFs whose expression was measurable in only a single of the tested tissues were represented in existing expression databases at a rate of only 11%, whereas 36% of ORFs whose expression was measurable in 9 tissues were present in existing expression databases, and fully 45% of those ORFs expressed in all ten tested tissues were present in existing expressed sequence databases.

Either as tools for measuring gene expression or tools for surveying gene expression, the genome-derived single exon probes of the present invention have significant advantages over the cDNA or EST-based probes that are currently available for achieving these utilities.

The genome-derived single exon probes of the present invention are useful in constructing genome-derived single exon microarrays; the genome-derived single exon microarrays, in turn, are useful devices for measuring and for surveying gene expression in the human.

Gene expression analysis using microarrays — conventionally using microarrays having probes derived from expressed message — is well-established as useful in the biological research arts (see Lockhart et al. Nature 405, 827-836).

Microarrays have been used to determine gene expression profiles in cells in response to drug treatment (see, for example, Kaminski et al., "Global Analysis of Gene Expression in Pulmonary Fibrosis Reveals Distinct Programs Regulating Lung Inflammation and Fibrosis," Proc. Natl. Acad. Sci. USA 97(4):1778-83 (2000); Bartosiewicz et al., "Development of a Toxicological Gene Array and Quantitative Assessment of This Technology, " Arch. Biochem. Biophys. 376(1):66-73 (2000)), viral infection (see for 15 example, Geiss et al., "Large-scale Monitoring of Host Cell Gene Expression During HIV-1 Infection Using cDNA Microarrays," Virology 266(1):8-16 (2000)) and during cell processes such as differentiation, senescence and apoptosis (sée, for example, Shelton et al., "Microarray Analysis of Replicative Senescence," Curr. Biol. 9(17):939-45 (1999); Voehringer et al., "Gene Microarray Identification of Redox and Mitochondrial Elements That Control Resistance or Sensitivity to Apoptosis," Proc. Natl. Acad. Sci. USA 97(6):2680-5 (2000)).

Microarrays have also been used to determine abnormal gene expression in diseased tissues (see, for example, Alon et al., "Broad Patterns of Gene Expression Revealed by Clustering Analysis of Tumor and Normal Colon Tissues Probed by Oligonucleotide Arrays," Proc. Natl.

30 Acad. Sci. USA 96(12):6745-50 (1999); Perou et al.,
"Distinctive Gene Expression Patterns in Human Mammary
Epithelial Cells and Breast Cancers, Proc. Natl. Acad. Sci.
USA 96(16):9212-7 (1999); Wang et al., "Identification of
Genes Differentially Over-expressed in Lung Squamous Cell

35 Carcinoma Using Combination of cDNA Subtraction and

Microarray Analysis," Oncogene 19(12):1519-28 (2000);
Whitney et al., "Analysis of Gene Expression in Multiple
Sclerosis Lesions Using cDNA Microarrays," Ann. Neurol.
46(3):425-8 (1999)), in drug discovery screens (see, for
example, Scherf et al., "A Gene Expression Database for the
Molecular Pharmacology of Cancer," Nat. Genet. 24(3):236-44
(2000)) and in diagnosis to determine appropriate treatment
strategies (see, for example, Sgroi et al., "In vivo Gene
Expression Profile Analysis of Human Breast Cancer
Progression," Cancer Res. 59(22):5656-61 (1999)).

In microarray-based gene expression screens of pharmacological drug candidates upon cells, each probe provides specific useful data. In particular, it should be appreciated that even those probes that show no change in expression are as informative as those that do change, serving, in essence, as negative controls.

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For example, where gene expression analysis is used to assess toxicity of chemical agents on cells, the failure of the agent to change a gene's expression level is evidence that the drug likely does not affect the pathway of which the gene's expressed protein is a part.

Analogously, where gene expression analysis is used to assess side effects of pharmacological agents — whether in lead compound discovery or in subsequent screening of lead compound derivatives — the inability of the agent to alter a gene's expression level is evidence that the drug does not affect the pathway of which the gene's expressed protein is a part.

WO 99/58720 provides methods for quantifying the relatedness of a first and second gene expression profile and for ordering the relatedness of a plurality of gene expression profiles. The methods so described permit useful information to be extracted from a greater percentage of the individual gene expression measurements from a microarray than methods previously used in the art.

Other uses of microarrays are described in Gerhold et al., Trends Biochem. Sci. 24(5):168-173 (1999) and Zweiger, Trends Biotechnol. 17(11):429-436 (1999); Schena et al.

The invention particularly provides genomederived single-exon probes known to be expressed in heart.

The individual single exon probes can be provided in the form of substantially isolated and purified nucleic acid, typically, but not necessarily, in a quantity sufficient to perform a hybridization reaction.

Such nucleic acid can be in any form directly hybridizable to the message that contains the probe's ORF, such as double stranded DNA, single-stranded DNA complementary to the message, single-stranded RNA complementary to the message, or chimeric DNA/RNA molecules so hybridizable. The nucleic acid can alternatively or additionally include either nonnative nucleotides, alternative internucleotide linkages, or both, so long as complementary binding can be obtained. For example, probes can include phosphorothicates, methylphosphonates, morpholino analogs, and peptide nucleic acids (PNA), as are described, for example, in U.S. Patent Nos. 5,142,047; 5,235,033; 5,166,315; 5,217,866; 5,184,444; 5,861,250.

Usefully, however, such probes are provided in a form and quantity suitable for amplification, where the amplified product is thereafter to be used in the hybridization reactions that probe gene expression.

Typically, such probes are provided in a form and quantity suitable for amplification by PCR or by other well known amplification technique. One such technique additional to PCR is rolling circle amplification, as is described, inter alia, in U.S. Patent Nos. 5,854,033 and 5,714,320 and international patent publications WO 97/19193 and WO 00/15779. As is well understood, where the probes are to be provided in a form suitable for amplification, the

range of nucleic acid analogues and/or internucleotide linkages will be constrained by the requirements and nature of the amplification enzyme.

Where the probe is to be provided in form 5 suitable for amplification, the quantity need not be sufficient for direct hybridization for gene expression analysis, and need be sufficient only to function as an amplification template, typically at least about 1, 10 or 100 pg or more.

10 Each discrete amplifiable probe can also be packaged with amplification primers, either in a single composition that comprises probe template and primers, or in a kit that comprises such primers separately packaged therefrom. As earlier mentioned, the ORF-specific 15 5' primers used for genomic amplification can have a first common sequence added thereto, and the ORF-specific 3' primers used for genomic amplification can have a second, different, common sequence added thereto, thus permitting, in this embodiment, the use of a single set of 5' and 3' primers to amplify any one of the probes. The probe composition and/or kit can also include buffers, enzyme, etc., required to effect amplification.

As mentioned earlier, when intended for use on a genome-derived single exon microarray of the present invention, the genome-derived single exon probes of the present invention will typically average at least about 100, 200, 300, 400 or 500 bp in length, including (and typically, but not necessarily centered about) the ORF. Furthermore, when intended for use on a genome-derived 30 single exon microarray of the present invention, the genome-derived single exon probes of the present invention will typically not contain a detectable label.

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When intended for use in solution phase hybridization, however - that is, for use in a hybridization reaction in which the probe is not first

bound to a support substrate (although the target may indeed be so bound) — length constraints that are imposed in microarray-based hybridization approaches will be relaxed, and such probes will typically be labeled.

In such case, the only functional constraint that dictates the minimum size of such probe is that each such probe must be capable of specifically identifying in a hybridization reaction the exon from which it is drawn. In theory, a probe of as little as 17 nucleotides is capable of uniquely identifying its cognate sequence in the human genome. For hybridization to expressed message — a subset of target sequence that is much reduced in complexity as compared to genomic sequence — even fewer nucleotides are required for specificity.

Therefore, the probes of the present invention can include as few as 20, 25 or 50 bp or ORF, or more. In particular embodiments, the ORF sequences are given in SEQ ID NOS. 9,981 - 19,771, respectively, for probe SEQ ID NOS. 1 - 9,980. The minimum amount of ORF required to be included in the probe of the present invention in order to provide specific signal in either solution phase or microarray-based hybridizations can readily be determined for each of ORF SEQ ID NOS. 9,981 - 19,771 individually by routine experimentation using standard high stringency conditions.

Such high stringency conditions are described, inter alia, in Ausubel et al. and Maniatis et al. For microarray-based hybridization, standard high stringency conditions can usefully be 50% formamide, 5X SSC, 0.2 µg/µl poly(dA), 0.2 µg/µl human cot1 DNA, and 0.5 % SDS, in a humid oven at 42°C overnight, followed by successive washes of the microarray in 1X SSC, 0.2% SDS at 55°C for 5 minutes, and then 0.1X SSC, 0.2% SDS, at 55°C for 20 minutes. For solution phase hybridization, standard high stringency conditions can usefully be aqueous hybridization

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at 65°C in 6X SSC. Lower stringency conditions, suitable for cross-hybridization to mRNA encoding structurally—and functionally—related proteins, can usefully be the same as the high stringency conditions but with reduction in temperature for hybridization and washing to room temperature (approximately 25°C).

When intended for use in solution phase hybridization, the maximum size of the single exon probes of the present invention is dictated by the proximity of other expressed exons in genomic DNA: although each single exon probe can include intergenic and/or intronic material contiguous to the ORF in the human genome, each probe of the present invention will include portions of only one expressed exon.

Thus, each single exon probe will include no more than about 25 kb of contiguous genomic sequence, more typically no more than about 20 kb of contiguous genomic sequence, more usually no more than about 15 kb, even more usually no more than about 10 kb. Usually, probes that are maximally about 5 kb will be used, more typically no more than about 3 kb.

It will be appreciated that the Sequence Listing appended hereto presents, by convention, only that strand of the probe and ORF sequence that can be directly

25 translated reading from 5' to 3' end. As would be well understood by one of skill in the art, single stranded probes must be complementary in sequence to the ORF as present in an mRNA; it is well within the skill in the art to determine such complementary sequence. It will further be understood that double stranded probes can be used in both solution-phase hybridization and microarray-based hybridization if suitably denatured.

Thus, it is an aspect of the present invention to provide single-stranded nucleic acid probes that have sequence complementary to those described herein above and

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below, and double-stranded probes one strand of which has sequence complementary to the probes described herein.

The probes can, but need not, contain intergenic and/or intronic material that flanks the ORF, on one or both sides, in the same linear relationship to the ORF that the intergenic and/or intronic material bears to the ORF in genomic DNA. The probes do not, however, contain nucleic acid derived from more than one expressed ORF.

And when intended for use in solution

10 hybridization, the probes of the present invention can

11 usefully have detectable labels. Nucleic acid labels are

12 well known in the art, and include, inter alia, radioactive

13 labels, such as ³H, ³²P, ³³P, ³⁵S, ¹²⁵I, ¹³¹I; fluorescent

14 labels, such as Cy3, Cy5, Cy5, Cy7, SYBR®

Green and other labels described in Haugland,

Handbook of Fluorescent Probes and Research Chemicals, 7th
ed., Molecular Probes Inc., Eugene, OR (2000), or
fluorescence resonance energy transfer tandem conjugates
thereof; labels suitable for chemiluminescent and/or
enhanced chemiluminescent detection; labels suitable for
ESR and NMR detection; and labels that include one member
of a specific binding pair, such as biotin, digoxigenin, or
the like.

The probes, either in quantity sufficient for 25 hybridization or sufficient for amplification, can be provided in individual vials or containers.

Alternatively, such probes can usefully be packaged as a plurality of such individual genome-derived single exon probes.

When provided as a collection of plural individual probes, the probes are typically made available in amplifiable form in a spatially-addressable ordered set, typically one per well of a microtiter dish. Although a 96 well microtiter plate can be used, greater efficiency is obtained using higher density arrays.

If, as earlier mentioned, the ORF-specific
5' primers used for genomic amplification had a first
common sequence added thereto, and the ORF-specific 3'
primers used for genomic amplification had a second,
different, common sequence added thereto, a single set of
5' and 3' primers can be used to amplify all of the probes
from the amplifiable ordered set.

Such collections of genome-derived single exon probes can usefully include a plurality of probes chosen for the common attribute of expression in the human heart.

In such defined subsets, typically at least 50, 60, 75, 80, 85, 90 or 95% or more of the probes will be chosen by their expression in the defined tissue or cell type.

The single exon probes of the present invention, as well as fragments of the single exon probes comprising selectively hybridizable portions of the probe ORF, can be used to obtain the full length cDNA that includes the ORF by (i) screening of cDNA libraries; (ii) rapid

amplification of cDNA ends ("RACE"); or (iii) other conventional means, as are described, inter alia, in Ausubel et al. and Maniatis et al.

It is another aspect of the present invention to provide genome-derived single exon nucleic acid microarrays useful for gene expression analysis, where the term "microarray" has the meaning given in the definitional section of this description, supra.

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The invention particularly provides genomederived single-exon nucleic acid microarrays comprising a 30 plurality of probes known to be expressed in human heart. In preferred embodiments, the present invention provides human genome-derived single exon microarrays comprising a plurality of probes drawn from the group consisting of SEQ ID NOS.: 1 - 9,980.

When used for gene expression analysis, the

genome-derived single exon microarrays provide greater physical informational density than do the genome-derived single exon microarrays that have lower percentages of probes known to be expressed commonly in the tested tissue.

At a fixed probe density, for example, a given microarray surface area of the defined subset genome-derived single exon microarray can yield a greater number of expression measurements. Alternatively, at a given probe density, the same number of expression measurements can be obtained from a smaller substrate surface area. Alternatively, at a fixed probe density and fixed surface area, probes can be provided redundantly, providing greater reliability in signal measurement for any given probe. Furthermore, with a higher percentage of probes known to be expressed in the assayed tissue, the dynamic range of the detection means can be adjusted to reveal finer levels discrimination among the levels of expression.

Although particularly described with respect to their utility as probes of gene expression, particularly as probes to be included on a genome-derived single exon microarray, each of the nucleic acids having SEQ ID NOS.: 1 - 9,980 contains an open-reading frame, set forth respectively in SEQ ID NOS.: 9,981 - 19,771, that encodes a protein domain. Thus, each of SEQ ID NOS. 1 - 9,980 can be used, or that portion thereof in SEQ ID NOS. 9,981 - 19,771 used, to express a protein domain by standard in vitro recombinant techniques. See Ausubel et al. and Maniatis et al.

Additionally, kits are available commercially

that readily permit such nucleic acids to be expressed as protein in bacterial cells, insect cells, or mammalian cells, as desired (e.g., HAT Protein Expression & Purification System, ClonTech Laboratories, Palo Alto, CA; Adeno-XT Expression System, ClonTech Laboratories, Palo

Alto, CA; Protein Fusion & Purification (pMALT) System, New

England Biolabs, Beverley, MA)

Furthermore, shorter peptides can be chemically synthesized using commercial peptide synthesizing equipment and well known techniques. Procedures are described, inter alia, in Chan et al. (eds.), Fmoc Solid Phase Peptide Synthesis: A Practical Approach (Practical Approach Series, (Paper)), Oxford Univ. Press (March 2000) (ISBN: 0199637245); Jones, Amino Acid and Peptide Synthesis (Oxford Chemistry Primers, No 7), Oxford Univ. Press (August 1992) (ISBN: 0198556683); and Bodanszky, Principles of Peptide Synthesis (Springer Laboratory), Springer Verlag (December 1993) (ISBN: 0387564314).

It is, therefore, another aspect of the invention to provide peptides comprising an amino acid sequence

15 translated from SEQ ID NOS.: 9,981 - 19,771. Such amino acid sequences are set out in SEQ ID NOS: 19,772 - 29,119. Any such recombinantly-expressed or synthesized peptide of at least 8, and preferably at least about 15, amino acids, can be conjugated to a carrier protein and used to generate antibody that recognizes the peptide. Thus, it is a further aspect of the invention to provide peptides that have at least 8, preferably at least 15, consecutive amino acids.

The following examples are offered by way of illustration and not by way of limitation.

EXAMPLE 1

Preparation of Single Exon Microarrays from ORFs Predicted 30 in Human Genomic Sequence

Bioinformatics Results

All human BAC sequences in fewer than 10 pieces that had been accessioned in a five month period immediately preceding this study were downloaded from

GenBank. This corresponds to ~2200 clones, totaling ~350 MB of sequence, or approximately 10% of the human genome.

After masking repetitive elements using the program CROSS_MATCH, the sequence was analyzed for open reading frames using three separate gene finding programs. The three programs predict genes using independent algorithmic methods developed on independent training sets: GRAIL uses a neural network, GENEFINDER uses a hidden Markoff model, and DICTION, a program proprietary to Genetics Institute, operates according to a different heuristic. The results of all three programs were used to create a prediction matrix across the segment of genomic DNA.

The three gene finding programs yielded a range of results. GRAIL identified the greatest percentage of genomic sequence as putative coding region, 2% of the data analyzed. GENEFINDER was second, calling 1%, and DICTION yielded the least putative coding region, with 0.8% of genomic sequence called as coding region.

The consensus data were as follows. GRAIL and GENEFINDER agreed on 0.7% of genomic sequence, GRAIL and DICTION agreed on 0.5% of genomic sequence, and the three programs together agreed on 0.25% of the data analyzed. That is, 0.25% of the genomic sequence was identified by all three of the programs as containing putative coding region.

ORFs predicted by any two of the three programs ("consensus ORFs") were assorted into "gene bins" using two criteria: (1) any 7 consecutive exons within a 25 kb window were placed together in a bin as likely contributing to a single gene, and (2) all ORFs within a 25 kb window were placed together in a bin as likely contributing to a single gene if fewer than 7 exons were found within the 25 kb window.

PCR ·

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The largest ORF from each gene bin that did not span repetitive sequence was then chosen for amplification, as were all consensus ORFs longer than 500 bp. This method approximated one exon per gene; however, a number of genes were found to be represented by multiple elements.

Previously, we had determined that DNA fragments fewer than 250 bp in length do not bind well to the aminomodified glass surface of the slides used as support substrate for construction of microarrays; therefore, amplicons were designed in the present experiments to approximate 500 bp in length.

Accordingly, after selecting the largest ORF per gene bin, a 500 bp fragment of sequence centered on the ORF was passed to the primer picking software, PRIMER3 15 (available online for use at http://www-genome.wi.mit.edu/cgi-bin/primer/). A first additional sequence was commonly added to each ORF-unique 5' primer, and a second, different, additional sequence was 20 commonly added to each ORF-unique 3' primer, to permit subsequent reamplification of the amplicon using a single set of "universal" 5' and 3' primers, thus immortalizing the amplicon. The addition of universal priming sequences also facilitates sequence verification, and can be used to add a cloning site should some ORFs be found to warrant 25 further study.

The ORFs were then PCR amplified from genomic DNA, verified on agarose gels, and sequenced using the universal primers to validate the identity of the amplicon to be spotted in the microarray.

Primers were supplied by Operon Technologies (Alameda, CA). PCR amplification was performed by standard techniques using human genomic DNA (Clontech, Palo Alto, CA) as template. Each PCR product was verified by SYBR® green (Molecular Probes, Inc., Eugene, OR) staining of

agarose gels, with subsequent imaging by Fluorimager (Molecular Dynamics, Inc., Sunnyvale, CA). PCR amplification was classified as successful if a single band appeared.

The success rate for amplifying ORFs of interest directly from genomic DNA using PCR was approximately 75%. FIG. 5 graphs the distribution of predicted ORF (exon) length and distribution of amplified PCR products, with ORF length shown in red and PCR product length shown in blue (which may appear black in the figure). Although the range of ORF sizes is readily seen to extend to beyond 900 bp, the mean predicted exon size was only 229 bp, with a median size of 150 bp (n=9498). With an average amplicon size of 475 ± 25 bp, approximately 50% of the average PCR

15 amplification product contained predicted coding region, with the remaining 50% of the amplicon containing either intron, intergenic sequence, or both.

Using a strategy predicated on amplifying about 500 bp, it was found that long exons had a higher PCR failure rate. To address this, the bioinformatics process was adjusted to amplify 1000, 1500 or 2000 bp fragments from exons larger than 500 bp. This improved the rate of successful amplification of exons exceeding 500 bp, constituting about 9.2% of the exons predicted by the gene 25 finding algorithms.

Approximately 75% of the probes disposed on the array (90% of those that successfully PCR amplified) were sequence-verified by sequencing in both the forward and reverse direction using MegaBACE sequencer (Molecular Dynamics, Inc., Sunnyvale, CA), universal primers, and standard protocols.

Some genomic clones (BACs) yielded very poor PCR and sequencing results. The reasons for this are unclear, but may be related to the quality of early draft sequence or the inclusion of vector and host contamination in some

submitted sequence data.

Although the intronic and intergenic material flanking coding regions could theoretically interfere with hybridization during microarray experiments, subsequent 5 empirical results demonstrated that differential expression ratios were not significantly affected by the presence of noncoding sequence. The variation in exon size was similarly found not to affect differential expression ratios significantly; however, variation in exon size was observed to affect the absolute signal intensity (data not shown).

The 350 MB of genomic DNA was, by the abovedescribed process, reduced to 9750 discrete probes, which
were spotted in duplicate onto glass slides using

commercially available instrumentation (MicroArray GenII
Spotter and/or MicroArray GenIII Spotter, Molecular
Dynamics, Inc., Sunnyvale, CA). Each slide additionally
included either 16 or 32 E. coli genes, the average
hybridization signal of which was used as a measure of
background biological noise.

Each of the probe sequences was BLASTed against the human EST data set, the NR data set, and SwissProt GenBank (May 7, 1999 release 2.0.9).

One third of the probe sequences (as amplified)

25 produced an exact match (BLAST Expect ("E") values less
than 1 e⁻¹⁰⁰) to either an EST (20% of sequences) or a known
mRNA (13% of sequences). A further 22% of the probe
sequences showed some homology to a known EST or mRNA
(BLAST E values from 1 e⁻⁵ to 1 e⁻⁹⁹). The remaining 45% of

30 the probe sequences showed no significant sequence homology
to any expressed, or potentially expressed, sequences
present in public databases.

All of the probe sequences (as amplified) were then analyzed for protein similarities with the SwissProt database using BLASTX, Gish et al., Nature Genet. 3:266

(1993). The predicted functional breakdowns of the 2/3 of probes identical or homologous to known sequences are presented in Table 1.

5 Table 1

Function	of Predic	cted ORFs As	Deduced From Comparative
1	a Analysis		Transca Transcamparacive
	- 1111424020	•	
mot a l	17 <i>C</i> -2-3	***	
Total	V6 chip	V/ cnip	Function Predicted from
		•	Comparative Sequence
			Analysis
211	96	115 ,	Receptor
120	43	77	Zinc Finger
30	11	19	Homeobox
25	9	16	Transcription Factor
17	11	7	Transcription
118	57	61	Structural
95	39	56	Kinase
36	18	18	Phosphatase
83	31	52	Ribosomal
45	19	26	Transport
21	17	14	Growth Factor
17	12	5	Cytochrome
50	33	17	Channel

As can be seen, the two most common types of genes were transcription factors and receptors, making up 2.2% and 1.8% of the arrayed elements, respectively.

EXAMPLE 2

Gene Expression Measurements From Genome-Derived Single Exon Microarrays

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The two genome-derived single exon microarrays prepared according to Example 1 were hybridized in a series of simultaneous two-color fluorescence experiments to (1)

5 Cy3-labeled cDNA synthesized from message drawn individually from each of brain, heart, liver, fetal liver, placenta, lung, bone marrow, HeLa, BT 474, or HBL 100 cells, and (2) Cy5-labeled cDNA prepared from message pooled from all ten tissues and cell types, as a control in each of the measurements. Hybridization and scanning were carried out using standard protocols and Molecular Dynamics equipment.

Briefly, mRNA samples were bought from commercial sources (Clontech, Palo Alto, CA and Amersham Pharmacia Biotech (APB)). Cy3-dCTP and Cy5-dCTP (both from APB) were 15 incorporated during separate reverse transcriptions of $\cdot 1~\mu g$ of polyA $^{+}$ mRNA performed using 1 μg oligo(dT)12-18 primer and 2 µg random 9mer primers as follows. After heating to 70°C, the RNA:primer mixture was snap cooled on ice. After snap cooling on ice, added to the RNA to the stated final 20 concentration was: 1% Superscript II buffer, 0.01 M DTT, 100 μM dATP, 100 μM dGTP, 100 μM dTTP, 50 μM dCTP, 50 μM Cy3-dCTP or Cy5-dCTP 50 μM , and 200 U Superscript II The reaction was incubated for 2 hours at 42°C. 25 After 2 hours, the first strand cDNA was isolated by adding 1 U Ribonuclease H, and incubating for 30 minutes at 37°C. The reaction was then purified using a Qiagen PCR cleanup column, increasing the number of ethanol washes to 5. Probe was eluted using 10 mM Tris pH 8.5.

Using a spectrophotometer, probes were measured for dye incorporation. Volumes of both Cy3 and Cy5 cDNA corresponding to 50 pmoles of each dye were then dried in a Speedvac, resuspended in 30 μl hybridization solution containing 50% formamide, 5X SSC, 0.2 μg/μl poly(dA), 0.2 μg/μl human cotl DNA, and 0.5% SDS.

Hybridizations were carried out under a coverslip, with the array placed in a humid oven at 42°C overnight. Before scanning, slides were washed in 1X SSC, 0.2% SDS at 55°C for 5 minutes, followed by 0.1X SSC, 0.2% SDS, at 55°C for 20 minutes. Slides were briefly dipped in water and dried thoroughly under a gentle stream of nitrogen.

Slides were scanned using a Molecular Dynamics
Gen3 scanner, as described. Schena (ed.), Microarray

Biochip: Tools and Technology, Eaton Publishing
Company/BioTechniques Books Division (2000) (ISBN:
1881299376).

Although the use of pooled cDNA as a reference permitted the survey of a large number of tissues, it

15 attenuates the measurement of relative gene expression, since every highly expressed gene in the tissue/cell type-specific fluorescence channel will be present to a level of at least 10% in the control channel. Because of this fact, both signal and expression ratios (the latter hereinafter,

20 "expression" or "relative expression") for each probe were normalized using the average ratio or average signal, respectively, as measured across the whole slide.

Data were accepted for further analysis only when signal was at least three times greater than biological noise, the latter defined by the average signal produced by the *E. coli* control genes.

The relative expression signal for these probes was then plotted as function of tissue or cell type, and is presented in FIG. 6.

FIG. 6 shows the distribution of expression across a panel of ten tissues. The graph shows the number of sequence-verified products that were either not expressed ("0"), expressed in one or more but not all tested tissues ("1" - "9"), and expressed in all tissues tested ("10").

Of 9999 arrayed elements on the two microarrays (including positive and negative controls and "failed" products), 2353 (51%) were expressed in at least one tissue or cell type. Of the gene elements showing significant signal — where expression was scored as "significant" if the normalized Cy3 signal was greater than 1, representing signal 5-fold over biological noise (0.2) — 39% (991) were expressed in all 10 tissues. The next most common class (15%) consisted of gene elements expressed in only a single tissue.

The genes expressed in a single tissue were further analyzed, and the results of the analyses are compiled in FIG. 7.

FIG. 7A is a matrix presenting the expression of all verified sequences that showed expression greater than 3 in at least one tissue. Each clone is represented by a column in the matrix. Each of the 10 tissues assayed is represented by a separate row in the matrix, and relative expression of a clone in that tissue is indicated at the respective node by intensity of green shading, with the 20 intensity legend shown in panel B. The top row of the matrix ("EST Hit") contains "bioinformatic" rather than "physical" expression data — that is, presents the results returned by query of EST, NR and SwissProt databases using the probe sequence. The legend for "bioinformatic expression" (i.e., degree of homology returned) is presented in panel C. Briefly, white is known, black is novel, with gray depicting nonidentical with significant homology (white: E values < 1e-100; gray: E values from 1e-30 05 to 1e-99; black: E values > 1e-05).

As FIG. 7 readily shows, heart and brain were demonstrated to have the greatest numbers of genes that were shown to be uniquely expressed in the respective tissue. In brain, 200 uniquely expressed genes were identified; in heart, 150. The remaining tissues gave the

following figures for uniquely expressed genes: liver, 100; lung, 70; fetal liver, 150; bone marrow, 75; placenta, 100; HeLa, 50; HBL, 100; and BT474, 50.

It was further observed that there were many more

"novel" genes among those that were up-regulated in only
one tissue, as compared with those that were down-regulated
in only one tissue. In fact, it was found that ORFs whose
expression was measurable in only a single of the tested
tissues were represented in sequencing databases at a rate
of only 11%, whereas 36% of the ORFs whose expression was
measurable in 9 of the tissues were present in public
databases. As for those ORFs expressed in all ten tissues,
fully 45% were present in existing expressed sequence
databases. These results are not unexpected, since genes
expressed in a greater number of tissues have a higher
likelihood of being, and thus of having been, discovered by
EST approaches.

Comparison of Signal from Known and Unknown Genes

The normalized signal of the genes found to have high homology to genes present in the GenBank human EST database were compared to the normalized signal of those genes not found in the GenBank human EST database. The data are shown in FIG. 8.

FIG. 8 shows the normalized Cy3 signal intensity for all sequence-verified products with a BLAST Expect ("E") value of greater than 1e-30 (designated "unknown") upon query of existing EST, NR and SwissProt databases, and shows in blue the normalized Cy3 signal intensity for all sequence-verified products with a BLAST Expect value of less than 1e-30 ("known"). Note that biological background noise has an averaged normalized Cy3 signal intensity of 0.2.

As expected, the most highly expressed of the ORFs were "known" genes. This is not surprising, since

very high signal intensity correlates with very commonlyexpressed genes, which have a higher likelihood of being found by EST sequence.

However, a significant point is that a large

5 number of even the high expressers were "unknown". Since
the genomic approach used to identify genes and to confirm
their expression does not bias exons toward either the 3'
or 5' end of a gene, many of these high expression genes
will not have been detected in an end-sequenced cDNA

10 library.

The significant point is that presence of the gene in an EST database is not a prerequisite for incorporation into a genome-derived microarray, and further, that arraying such "unknown" exons can help to assign function to as-yet undiscovered genes.

Verification of Gene Expression

To ascertain the validity of the approach described above to identify genes from raw genomic

20 sequence, expression of two of the probes was assayed using reverse transcriptase polymerase chain reaction (RT PCR) and northern blot analysis.

Two microarray probes were selected on the basis of exon size, prior sequencing success, and tissue-specific gene expression patterns as measured by the microarray experiments. The primers originally used to amplify the two respective ORFs from genomic DNA were used in RT PCR against a panel of tissue-specific cDNAs (Rapid-Scan gene expression panel 24 human cDNAs) (OriGene Technologies, Inc., Rockville, MD).

Sequence AL079300_1 was shown by microarray hybridization to be present in cardiac tissue, and sequence AL031734_1 was shown by microarray experiment to be present in placental tissue (data not shown). RT-PCR on these two sequences confirmed the tissue-specific gene expression as

measured by microarrays, as ascertained by the presence of a correctly sized PCR product from the respective tissue type cDNAs.

Clearly, all microarray results cannot, and

indeed should not, be confirmed by independent assay
methods, or the high throughput, highly parallel advantages
of microarray hybridization assays will be lost. However,
in addition to the two RT-PCR results presented above, the
observation that 1/3 of the arrayed genes exist in

expression databases provides powerful confirmation of the
power of our methodology — which combines bioinformatic
prediction with expression confirmation using genome—
derived single exon microarrays — to identify novel genes
from raw genomic data.

To verify that the approach further provides correct characterization of the expression patterns of the identified genes, a detailed analysis was performed of the microarrayed sequences that showed high signal in brain.

For this latter analysis, sequences that showed

20 high (normalized) signal in brain, but which showed very
low (normalized) signal (less than 0.5, determined to be
biological noise) in all other tissues, were further
studied. There were 82 sequences that fit these criteria,
approximately 2% of the arrayed elements. The 10 sequences

25 showing the highest signal in brain in microarray
hybridizations are detailed in Table 2, along with assigned
function, if known or reasonably predicted.

Table 2

Function of the Most Highly
Expressed Genes Expressed Only in Brain

wo	01/57274				PCT/US01/00666
	Microarray	Normal	Expressi	Homology	Gene Function
	Sequence			to EST	
	Name	Signal		present	GenBank
				in	
				GenBank	
	AP000217-1	5.2	+7.7	High	S-100 protein,
					b-chain, Ca ²⁺
					binding protein
					expressed in
					central nervous
					system
	AP000047-1	2.3		High	Unknown
				•	Function
	AC006548-9	1.7		High	Similar to
ı			·		mouse membrane
					glyco-protein
					M6, expressed
					in central
					nervous system
	AC007245-5	1.5		High	Similar to
					amphiphysin, a
					synaptic
					vesicle-
					associated
					protein. Ref 21
	L44140-4	1.2	+2.0	High	Endothelial
					actin-binding
					protein found
	1	-			in nonmuscle

filamin

AC004689-9	1.2	+3.5	High	Protein
				Phosphatase
				PP2A, neuronal/
				downregulates
				activated
				protein kinases
AL031657-1	1.2	+3.0	High	Unknown
				function/
				Contains the
ı				anhyrin motif,
				a common
				protein
				sequence motif
AC009266-2	1.1	+3.7	Low	Low homology to
				the
				Synaptotagmin I
			:	protein in
			ļ	rat/present at
				low levels
				throughout rat
				brain
AP000086-1	1.0	+2.7	Low	Unknown, very
				poor homology
				to collagen
AC004689-3	1.0		High	Protein
				Phosphatase
				PP2A, neuronal/
				downregulates
				activated
				protein kinases

Of the ten sequences studied by these latter confirmatory approaches, eight were previously known. Of these eight, six had previously been reported to be

5 important in the central nervous system or brain. The exon

giving the highest signal (AP00217-1) was found to be the gene encoding an S100B Ca²⁺ binding protein, reported in the literature to be highly and uniquely expressed in the central nervous system. Heizmann, Neurochem. Res. 9:1097 (1997).

A number of the brain-specific probe sequences (including AC006548-9, AC009266-2) did not have homology to any known human cDNAs in GenBank but did show homology to rat and mouse cDNAs. Sequences AC004689-9 and AC004689-3

10 were both found to be phosphatases present in neurons (Millward et al., Trends Biochem. Sci. 24(5):186-191 (1999)). Two microarray sequences, AP000047-1 and AP000086-1 have unknown function, with AP000086-1 being absent from GenBank. Functionality can now be narrowed down to a role in the central nervous system for both of these genes, showing the power of designing microarrays in this fashion.

Next, the function of the chip sequences with the highest (normalized) signal intensity in brain, regardless of expression in other tissues, was assessed. In this latter analysis, we found expression of many more common genes, since the sequences were not limited to those expressed only in brain. For example, looking at the 20 highest signal intensity spots in brain, 4 were similar to tubulin (AC00807905; AF146191-2; AC007664-4; AF14191-2), 2 were similar to actin (AL035701-2; AL034402-1), and 6 were found to be homologous to glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (AL035604-1; Z86090-1; AC006064-L, AC006064-K; AC035604-3; AC006064-L). These genes are often used as controls or housekeeping genes in microarray experiments of all types.

Other interesting genes highly expressed in brain were a ferritin heavy chain protein, which is reported in the literature to be found in brain and liver (Joshi et al., J. Neurol. Sci. 134(Suppl):52-56 (1995)), a result

duplicated with the array. Other highly expressed chip sequences included a translation elongation factor 1□ (AC007564-4), a DEAD-box homolog (AL023804-4), and a Y-chromosome RNA-binding motif (Chai et al., Genomics 49(2):283-89 (1998)) (AC007320-3). A low homology analog (AP00123-1/2) to a gene, DSCR1, thought to be involved in trisomy 21 (Down's syndrome), showed high expression in both brain and heart, in agreement with the literature (Fuentes et al., Mol. Genet. 4(10):1935-44 (1995)).

As a further validation of the approach, we selected the BAC AC006064 to be included on the array. This BAC was known to contain the GAPDH gene, and thus could be used as a control for the ORF selection process. The gene finding and exon selection algorithms resulted in choosing 25 exons from BAC AC006064 for spotting onto the array, of which four were drawn from the GAPDH gene. Table 3 shows the comparison of the average expression ratio for the 4 exons from BAC006064 compared with the average expression ratio for 5 different dilutions of a commercially available GAPDH cDNA (Clontech).

Table 3

Comparis	son of Expression R	atio, for each
tissue, of GAPDH		•
,		
	AC006064 (n = 4)	Control $(n = 5)$
Bone Marrow	-1.81 ± 0.11	-1.85 ± 0.08
Brain	-1.41 ± 0.11	-1.17 ± 0.05
BT474	1.85 ± 0.09	1.66 ± 0.12
Fetal Liver	-1.62 ± 0.07	-1.41 ± 0.05
HBL100	1.32 ± 0.05	2.64 ± 0.12
Heart	1.16 ± 0.09	1.56 ± 0.10
HeLa	1.11 ±0.06	1.30 ± 0.15
Liver	-1.62 ± 0.22	-2.07 ±

Lung	-4.95 ± 0.93	-3.75 ± 0.21
Placenta	-3.56 ± 0.25	-3.52 ± 0.43

Each tissue shows excellent agreement between the experimentally chosen exons and the control, again

5 demonstrating the validity of the present exon mining approach. In addition, the data also show the variability of expression of GAPDH within tissues, calling into question its classification as a housekeeping gene and utility as a housekeeping control in microarray experiments.

EXAMPLE 3

Representation of Sequence and Expression Data as a "Mondrian"

15

For each genomic clone processed for microarray as above-described, a plethora of information was accumulated, including full clone sequence, probe sequence within the clone, results of each of the three gene finding programs, EST information associated with the probe sequences, and microarray signal and expression for multiple tissues, challenging our ability to display the information.

Accordingly, we devised a new tool for visual display of the sequence with its attendant annotation which, in deference to its visual similarity to the paintings of Piet Mondrian, is hereinafter termed a "Mondrian". FIGS. 3 and 4 present the key to the information presented on a Mondrian.

FIG. 9 presents a Mondrian of BAC AC008172 (bases 25,000 to 130,000 shown), containing the carbamyl phosphate synthetase gene (AF154830.1). Purple background within the region shown as field 81 in FIG. 3 indicates all 37 known

exons for this gene.

As can be seen, GRAIL II successfully identified 27 of the known exons (73%), GENEFINDER successfully identified 37 of the known exons (100%), while DICTION identified 7 of the known exons (19%).

Seven of the predicted exons were selected for physical assay, of which 5 successfully amplified by PCR and were sequenced. These five exons were all found to be from the same gene, the carbamyl phosphate synthetase gene (AF154830.1).

The five exons were arrayed, and gene expression measured across 10 tissues. As is readily seen in the Mondrian, the five chip sequences on the array show identical expression patterns, elegantly demonstrating the reproducibility of the system.

FIG. 10 is a Mondrian of BAC AL049839. We selected 12 exons from this BAC, of which 10 successfully sequenced, which were found to form between 5 and 6 genes. Interestingly, 4 of the genes on this BAC are protease inhibitors. Again, these data elegantly show that exons 20 selected from the same gene show the same expression patterns, depicted below the red line. From this figure, it is clear that our ability to find known genes is very good. A novel gene is also found from 86.6 kb to 88.6 kb, upon which all the exon finding programs agree. We are confident we have two exons from a single gene since they show the same expression patterns and the exons are proximal to each other. Backgrounds in the following colors indicate a known gene (top to bottom): red = kallistatin protease inhibitor (P29622); purple = plasma serine protease inhibitor (P05154); turquoise = α 1 anti-chymotrypsin (P01011); mauve = 40S ribosomal protein (P08865). Note that chip sequence 8 and 12 did not sequence verify.

10

EXAMPLE 4

Genome-Derived Single Exon Probes Useful For Measuring Human Gene Expression

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The protocols set forth in Examples 1 and 2, supra, were applied to additional human genomic sequence as it became newly available in GenBank to identify unique exons in the human genome that could be shown to be expressed at significant levels in heart tissue.

These unique exons are within longer probe sequences. Each probe was completely sequenced on both strands prior to its use on a genome-derived single exon microarray; sequencing confirms the exact chemical

15 structure of each probe. An added benefit of sequencing is that it placed us in possession of a set of single base-incremented fragments of the sequenced nucleic acid, starting from the sequencing primer 3' OH. (Since the single exon probes were first obtained by PCR amplification from genomic DNA, we were of course additionally in possession of an even larger set of single base incremented fragments of each of the 9,980 single exon probes, each fragment corresponding to an extension product from one of the two amplification primers.)

The structures of the 9,980 unique single exon probes are clearly presented in the Sequence Listing as SEQ ID Nos.: 1 - 9,980. The 16 nt 5' primer sequence and 16 nt 3' primer sequence present on the amplicon are not included in the sequence listing. The sequences of the exons

present within each of these probes is presented in the Sequence Listing as SEQ ID Nos.: 9,981 - 19,771, respectively. It will be noted that some amplicons have more than one exon, some exons are contained in more than one amplicon.

As detailed in Example 2, expression was

demonstrated by disposing the amplicons as single exon probes on nucleic acid microarrays and then performing two-color fluorescent hybridization analysis; significant expression is based on a statistical confidence that the signal is significantly greater than negative biological control spots. The negative biological control is formed from spotted DNA sequences from a different species. Here, 32 sequences from E.Coli were spotted in duplicate to give a total of 64 spots.

10 For each hybridisation (each slide, each colour) the median value of the signal from all of the spots is determined. The normalised signal value is the arithmetic mean of the signal from duplicate spots divided by the population median.

15 Control spots are eliminated if there is more that a five-fold difference between each one of the duplicate spots raw signals.

The median of the signal from the remaining control spots is calculated and all subsequent calculations are done with normalised signals.

Control spots having a signal of greater than median + 2.4 (the value 2.4 is roughly 12 times the observed standard deviation of control spot populations) are eliminated. Spots with such high signals are considered to be "outliers".

The mean and standard deviation of the modified control spot populations are calculated.

The mean + 3x the standard deviation (mean + (3*SD)) is used as the signal threshold qualifier for that particular hybridisation. Thus, individual thresholds are determined for each channel and each hybridisation.

This means that, assuming that the data is distributed normally, there is a 99% confidence that any signal exceeding the threshold is significant.

35 The probes and their expression data are

presented in Table 4, set forth respectively in Example 5.

Example 5 presents the subset of probes that is significantly expressed in the human heart and thus presents the subset of probes that was recognized to be useful for measuring expression of their cognate genes in human heart tissue.

The sequence of each of the exon probes identified by SEQ ID NOS.: 9,981 - 19,771 was individually used as a BLAST (or, for SWISSPROT, BLASTX) query to identify the most similar sequence in each of dbEST, SwissProt (BLASTX), and NR divisions of GenBank. Because the query sequences are themselves derived from genomic sequence in GenBank, only nongenomic hits from NR were scored.

15 The smallest in value of the BLAST (or BLASTX)
expect ("E") scores for each query sequence across the
three database divisions was used as a measure of the
"expression novelty" of the probe's ORF. Table 4 is sorted
in descending order based on this measure, reported as
20 "Most Similar (top) Hit BLAST E Value". Those sequences for
which no "Hit E Value" is listed are those exons which were
found to have no similar sequences.

As sorted, Table 4 thus lists its respective probes (by "AMPLICON SEQ ID NO.:" and additionally by the SEQ ID NO.: of the exon contained within the probe: "EXON SEQ ID NO.:") from least similar to sequences known to be expressed (i.e., highest BLAST E value), at the beginning of the table, to most similar to sequences known to be expressed (i.e., lowest BLAST E value), at the bottom of the table.

Table 4 further provides, for each listed probe, the accession number of the database sequence that yielded the "Most Similar (top) Hit BLAST E Value", along with the name of the database in which the database sequence is found ("Top Hit Database Source").

30

PCT/US01/00666 WO 01/57274

Table 4 further provides SEQ ID NOS. corresponding to the predicted amino acid sequences where they have been determined for the probe and exon nucleotide sequences. These are set out as PEPTIDE SEQ ID NOS .: . The 5 peptide sequences for a given exon are predicted as follows: Since each chip exon is a consensus sequence drawn from predictions from various exon finding programs (i.e. Grail, GeneFinder and GenScan), the multiple initial ORFs are first determined in a uniform way according to each 10 prediction. In particular, the reading frame for predicting the first amino acid in the peptide sequence always starts with the first base of any codon and ends with the last base of non-termination codon. Next, for each strand of the exon, initial ORFs are merged into one or more final ORFs in an exhaustive process based on the following criteria: 1) the merging ORFs must be overlapping, and 2) the merging

The Sequence Listing, which is a superset of all of the data presented in Table 4, further includes, for 20 each probe, the most similar hit, with accession number and BLAST E value, from the each of the three queried databases.

ORFs must be in the same frame.

30

Table 4 further lists, for each probe, a portion of the descriptor for the top hit ("Top Hit Descriptor") as 25 provided in the sequence database. For those ORFs that are similar in sequence, but nonidentical to known sequences (e.g., those with BLAST E values between about 1e-05 and 1e-100), the descriptor reveals the likely function of the protein encoded by the probe's ORF.

Using BLAST E value cutoffs of 1e-05 (i.e., 1 \times 10^{-5}) and le-100 (i.e., 1 x 10^{-100}) as evidence of similarity to sequences known to be expressed is of course arbitrary: in Example 2, supra, a BLAST E value of 1e-30 was used as the boundary when only two classes were to be defined for 35 analysis (unknown, >1e-30; known <1e-30) (see also FIG. 8).

Furthermore, even when the "Most Similar (Top) Hit BLAST E Value" is low, e.g., less than about 1e-100 — which is probative evidence that the query sequence has previously been shown to be expressed — the top hit is highly unlikely exactly to match the probe sequence.

First, such expression entries typically will not have the intronic and/or intergenic sequence present within the single exon probes listed in the Table. Second, even the ORF itself is unlikely in such cases to be present identically in the databases, since most of the EST and mRNA clones in existing databases include multiple exons, without any indication of the location of exon boundaries.

As noted, the data presented in Table 4 represent a proper subset of the data present within the attached sequence listing. For each amplicon probe (SEQ ID NOs.: 1 - 9,980) and probe exon (SEQ ID NOs.: 9,981 - 19,771, respectively), the sequence listing further provides, through iterated annotation fields <220> and <223>:

- . . (a) the accession number of the BAC from which

 20 the sequence was derived ("MAP TO"), thus providing a link
 to the chromosomal map location and other information about
 the genomic milieu of the probe sequence;
- (b) the most similar sequence provided by BLAST query of the EST database, with accession number and BLAST 25 E value for the "hit";
 - (c) the most similar sequence provided by BLAST query of the GenBank NR database, with accession number and BLAST E value for the "hit"; and
- (d) the most similar sequence provided by BLASTX query of the SWISSPROT database, with accession number and BLAST E value for the "hit".

EXAMPLE 5

35 Genome-Derived Single Exon Probes Useful For Measuring

Expression of Genes in Human Heart

Table 4 (413 pages) presents expression, homology, and
functional information for the genome-derived single exon
probes that are expressed significantly in human heart.

Page 1 of 413 Table 4 Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Top Hit Descriptor																		5																
le Exon Probe	Top Hit Database Source																																		
Sing	Top Hit Acession No.																																		
	Most Similar (Top) Hit BLAST E Value																	,																	
	Expression Signal	4.41	17.08	2.14	7.97	1.87	4.97	1.01	0.95	7.45	0.98	3.03	2.62	2.34	3.7	1.52	8.97	. 0.87	0.99	1.71	. 5.94	0.89	0.89	1.03	1.76	0.78	5.08	207	1.92	1.92	2	5.89	4.9	2.9	1.6
	ORF SEQ ID NO:		20647		21039	21361	21381			21491	21620	21713	21907	22020	22875	23121	23192		23309	23781	23838	23858	23859		24402		24617	24629	24834	24835				25490	25678
	Exon SEQ ID NO:	10386	10797	10947	11188	11501	11523	11596	11616	11622	11744	11830	12008	12118	13074	13320	13387	13429	13521	14002	14064	14084	14084	14141	14616	14663	14851	14863	15140	15140	15248	15356	15248	15427	19451
	Probe SEQ ID NO:	442	871	1029	1280	1597	1619	1694	1715	1721	1848	1935	2119	2233	3149	3403	3471	3513	3607	4102	4164	4184	4184	4242	4730	4779	4976	4988	5217	5217	5328	5436	5483	5509	2668

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Table 4
Single Exon Probes Expressed in Exp

Single Exon Probes Expressed in Heart	Top Hit Descriptor																		Homo sapiens LSS gene, partial, exons 15, 16, 17 and 18	Haemophilus influenzae Rd section 31 of 163 of the complete genome	Mus musculus Natp3 gene, excn 1; neuronal apoptosis inhibitory protein 1 (Naip1) and general transcription factor IIH polypeptide 2 (GHZ)1/2) genes, complete cds.	Mus musculus Naip3 gene, excn 1; neuronal apoptosis Inhibitory protein 1 (Naip1) and general transcription factor IIH polypeptide 2 (Gtt2h2) genes, complete cds	Deligue virus type 3 membrane protein (pr/M/M)/envelope glycoprotein (E) polyprotein mRNA nartial 어	Dengue virus type 3 membrana protein (nrMMM)/envelone chamadain /E) and	Mus musculus AT3 gene for antithrombin, complete cds.	IMMEDIATE-EARLY PROTEIN 1 (IE1) (IMMEDIATE-EARLY PHOSPHOPROTEIN PPRO	Leuciscus cephalus orientalis cytochrome b (cyt b) gene, partial cds; mitochondrial gene for mitochondrial product	Leuciscus cephalus orientalis cytochrome b (cyt b) gene, partial cds; mitochondrial gene for mitochondrial product	601651038R1 NIH_MGC_81 Hamo sapiens cDNA clane IMAGE:3934592 3'
le Exon Prob	Top Hit Database Source																		E		L L	TN TA	TN] IN		SWISSPROT	N	d LN	EST_HUMAN 6
Sing	Top Hit Acession No.																		9.9E+00 AJZ39028.1	-	2.1	9.6E+00 AF242432.1	1		5.1		9.1E+00 AF095609.1		
	Most Similar (Top) Hit BLAST E Value																		9.9E+00	9.8E+00 U32716.	9.6E+00 AF24243	9.6E+00	9.4E+00 L11433.	9.4E+00 L11433.	9.4E+00 AB04378	9.3E+00 P11210	9.1E+00/	9.1E+00	8.9E+00
	Expression Signal	1.41	1.84	1.61	1.61	1.29	1.3	3.58	1.26	3.7	231	2.84	2.91	1.73	1.73	2.19	1.62	2.11	13.31	1.54	1.32	1.32	2.72	2.72	5.91	2.97	2.07	2.07	5.51
	ORF SEQ ID NO:	25700				26769		27569			28355	•	28840	28150	28151		-	25230	25701	26745	28046	28047	22389	22390	22612	27271	24932	24933	25687
	Exen SEQ ID NO:	15599		16244	16244	16577	16820	17364	17534	17961	19472	18266	18555	17906	17906	18606	19094	19280	15500	16549	17805	17805	12499	12499	12820	17083	15163	15163	15587
	Probe SEQ ID NO:	5690	5863	6382	6382	6697	6942	7494	7684	8070	8219	8390	8666	8757	8757	8792	9464	9760	5691	6999	7955	7955	2631	2631	2893	7206	5239	6239	5678

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Single Exon Probes Expressed in Heart

		T	7	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	7		T	1	T	T	T	T
Onigia Lyon Flores Expressed III near	Top Hit Descriptor	Cynops pyrrhogaster Cp/Tbx3 premature mRNA, partial cds	Ovnobs pyrthogaster CbTbx3 premature mRNA partial cds	Homo sepiens insulin receptor substrate 1 (IRS1) mRNA	Zea mays mRNA for legumain-like protease (see2a)	BREFELDIN A RESISTANCE PROTEIN	Thermoplasma acidophilum complete genome: segment 3/5	THROMBOSPONDIN 1 PRECURSOR	THROMBOSPONDIN 1 PRECURSOR	602128876F1 NIH MGC 56 Homo saniens cDNA clone IMAGE:4798508 51	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	Lycopersican esculentum Mill. GTPase (SAR2) mRNA complete cde	Lycopersicon esculentum MIII. GTPase (SAR2) mRNA complete cds	ZINC-FINGER PROTEIN 1 (ZINC-FINGER HOMEODOMAIN DEOTERN 4)	ZINC-FINGER PROTEIN 1 (ZINC-FINGER HOMEODOMAIN PROTEIN 1)	Arabidopsis thatiana DNA chromosome 4. contin fragment No. 91	HYPOTHETICAL 17.3 KDA PROTEIN IN MRDA-PHPR INTERGENIC BECION	ARGININE KINASE (AK)	WD-40 REPEAT PROTEIN MSIS	60S RIBOSOMAL PROTEIN [4 (L2)	DNA MISMATCH REPAIR PROTEIN MUTS	Za07c11.r1 Soares melanocyte ZNbHM Homo saplens cDNA clone IMAGE-291860 5	za07c11.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:291860 5	OUTER CAPSID PROTEIN VP4 (HEMAGGLUTININ) (OUTER LAYER PROTEIN VP4) [CONTAINS:	HAPOTHETICAL 167 0 KINA DEOTEIN CARCASE IN C	III CHILLINGAL 197. 3 (20 CHO) EIN COOL 10.3 IN CHROMOSOME III	URIDYLATE KINASE (UK) (URIDINE MONOPHOSPHATE KINASE) (UMP KINASE)	PROBABLE CATION-TRANSPORTING ATPASE CACO OF COMMENSACION	ENV POLYPROTEIN CONTAINS: COAT DROTEIN CBES COAT BROTEIN CRESS	Schizophyllum commune unknown mRNA	Mus musculus mixed lineage kinase 3 (Mik3) and two pore domain K+ channel subunit (Konk6) genes, complete cds.	Homo sapiens DESC1 protein (DESC1), mRNA
פופ באטון דוס	Top Hit Database Source	N F	N.	N-	Ę	SWISSPROT	Į.	SWISSPROT	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	F	Ł	SWISSPROT	SWISSPROT	N	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	TOGGSSINS	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	N	IN	N
5	Top Hit Acession No.	8.7E+00 AB019788.1	8.7E+00 AB019788.1	5031804 NT			7.5E+00 AL445065.1	235441	235441	3F700517.1		-04929	12051.1	L12051.1	28166	28166	AL161595.2	205850	248610	022469	936679	244834	N03412.1	V03412.1	20836207	003570	397E07	39ZE07	210309	03374	1.1		1557
	Most Similar (Top) Hit BLAST E Value	8.7E+00	8.7E+00	8.4E+00	.8.1E+00 AJ13171	8.0E+00 P41820	7.5E+00	7.5E+00 P35441	7.5E+00 P35441	7.4E+00 BF70051	7.4E+00 P04929	7.4E+00 P04929	7.2E+00 L12051.1	7.2E+00	7.1E+00 P28166	7.1E+00 P28166	7.1E+00 AL16159	7.1E+00 P05850	7.0E+00 P48610	7.0E+00 O22469	6.9E+00 P35679	6.9E+00 P44834	6.8E+00 W03412	8.8E+00 W03412.	6 8F±00 P36307	8 8E+00 CO3570	6 6E+00 097E07	6.6E+00 Q9ZE07	6.6E+00 Q10309	8.5E+00 P03374	6.2E+00 AY01090	5.9E+00	5.8E+00
	Expression Signal	1.71	1.71	1.75	3.68	2.31	2.07	1.53	1.53	2.58	3.83	3.83	4.2	4.2	1.3	1.3	8.48	3.26	2.98	1.85	272	1.3	1.45	1.45	1 47	3,82	21	21	217	8.32	1.44	7.18	0.81
	ORF SEQ ID NO:	25871	25872	20199	26642			26940	26941	25531	27155	27156	22671	22672	26254	26255		28860	27,809	28712	26889	28015	26680	26681		27957	27881	27882		27372	27686	25956	
	Exon SEQ ID NO:	15754	15754	10378	16452	18381		16747	16747		16962		12874	12874	16105			18577			16697	17775	16494	16494	17154	17713	17846	17846	18344	17172	17467	15833	13395
	Probe SEQ ID NO:	5848	5848	433	7439	8203	6346	6868	6868	5544	7085	7085	2947	2947	6239	6239	7535	8690	7735	8575	6818	7925	6614	6614	7277	7863	7796	7796	8471	7296	7616	5928	3479

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Single Exon Probes Expressed in Heart

	1	- 1	1	1.	. 1	1	- 1	- 1	- 1	- 1	-	- 1	- 1	1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	1	- 1	- 1	1	. 110	- 1	- 1	- 1	- 1	- 1	- 1
Single Exult Plobes Expressed in Heart	Top Hit Descriptor	LYCOPENE BETA CYCLASE	PNEUMOLYSIN (THIOL-ACTIVATED CYTOLYSIN)	Arabidopsis thallana DNA chromosome 4, contin fragment No. 67	VITELLOGENIN PREGURSOR (VTG) [CONTAINS: LIPOVITELLIN LV-1N; LIPOVITELLIN LV-1C; LIPOVITELLIN LV-21	RHODOPSIN	RHODOPSIN	Bovine immunodeficiency-like virus surface envelope gene 5 and of cds	DNA POLYMERASE GAMMA (MITOCHONDRIAL DNA POLYMERASE CATALYTIC STIBLINITY	PROBABLE ANTIBACTERIAL PEPTIDE POLYPROTEIN PRECURSOR	COLICIN N IMMUNITY PROTEIN (MICROCIN N IMMUNITY PROTEIN)	Canis familiaris skeletal muscle chloride channel CIC-1 (OLCN1) mRNA, complete ons	Mycobacterium tuberculosis H37Ry complete genome: serment 103/162	Eunice australis histone H3 (H3) gene, partial cds	PMD-BT0547-310100-002-b04 BT0547 Homo sepiens cDNA	601875654F1 NIH_MGC_55 Homo saplens cDNA clone IMAGE:4099716 5'	601975554F1 NIH MGC 55 Homo sapiens cDNA clone IMAGE 4090748 51	Homo sapiens chromosome 21 segment HS21C080	Methanococcus Jannaschil section 111 of 150 of the complete genome	Archaeoglobus fulgidus section 63 of 172 of the complete genome	602072585F1 NCI CGAP Bm67 Hamo sapiens cDNA clone IMAGE-4215284 5:	602072585F1 NCI_CGAP_Bm67 Homo saplens cDNA clone IMAGF-4215284 5	Murine I gene for MHC class II(Ia) associated invariant chain	Plasmodium falciparum R29R+var1 gene, exon 1	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	MICROSOMAL DIPEPTIDASE PRECURSOR (MDP) (DEHYDROPEPTIDASE-I) (RENAL DIPEPTIDASE) (RDP)	EXTENSIN PRECIESOR (CEL) WALL HYDROXYBBOLINE BIOLICI SOCIEDATEM	EXTENSIN PRECURSOR (CEL MAIL HYDROXYBBOLINE BICU CLYCOPROLEIN)	W65703X1 Soares NFL T GBC S1 Home seniens CDNA clone MAGG: 2250502 21	YY1 PROTEIN PRECURSOR	GENE 68 PROTEIN	GENE 68 PROTEIN
JIE CXOII PIO	Top Hit Database Source	SWISSPROT	SWISSPROT	R	SWISSPROT	SWISSPROT	SWISSPROT	F	SWISSPROT	SWISSPROT	SWISSPROT	N.	Į.	F	EST_HUMAN	EST_HUMAN	EST HUMAN	NT	LN.	N.	EST HUMAN	EST_HUMAN	F	NT	IN	SWISSPROT	SWISSPROT	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	SWISSPROT
	Top Hit Acession No.	5.6E+00 Q55276		71.2	Q91062			5.3E+00 L43126.1				5.2								4.5E+00 AE001044.1	7.	3.1	4.4E+00 X13414.1	4.3E+00 Y13402.1	4.3E+00 AF240786.1				4.2E+00 AI809013.1			
	Most Similar (Top) Hit BLAST E Value	5.6E+00	5.5E+00 P11990	5.5E+00	5.4E+00 Q91062	5.4E+00 Q17094	5.4E+00 Q17094	5.3E+00	5.3E+00 P54098	5.3E+00 Q27905	5.1E+00 P09182	5.0E+00	5.0E+00	4.8E+00	4.8E+00	4.7E+00	4.7E+00	4.7E+00	4.6E+00	4.5E+00	4.4E+00	4.4E+00	4.4E+00	4.3E+00	4.3E+00	4.2E+00 P16444	4.2E+00 P13983	4.2E+00 P13983	4.2E+00	4.1E+00 023810	4.1E+00 P28964	4.1E+00 P28964
	Expression Signal	2.44	2.65	1.94	1.62	1.44	1.44	1.54	4.04	3.21	1.21	3.06	10.53	9.43	5.01	2.03	1.92	4.01	1.48	1.99	96.0	96.0	1.55	2.01	7.49	2.92	1.57	1.57	5.45	7.65	3.31	3.31
	ORF SEQ ID NO:	28166	28165				27850	24354					28749			20071	20071		26617	28986	22723	22724		26420	28368	•	26186	26187	27249	26553	26618	26619
	S	17919	17918	18773	16473	17619	17619	14561			_1	_			_]	10251			l	18693		12931	15671	16259	18116	15306	16043	16043	17059	16378	16435	16435
	Probe SEQ ID NO:	8770	8769	8967	6593	7769	7769	4675	6710	8833	7655	7959	8610	3972	0269	286	287	3236	6576	8881	3003	3003	5764	6398	8235	5387	0909	0909	7182	6517	6577	6577

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Single Exon Probes Expressed in

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Table 4
Single Exon Probes Expressed in

	ø	П	Т	T	Т	T	T	Т	T	T	T	Τ	Т	\top	T	Т	T	T	Т	7	Т	7	T	T	T	7	Т	
Top Hit Descriptor	Escherichia coli glycerophosphate dehydrogenase (glpD) gene, partial cds; and the translation start site has been verified (glpE), the translation start site has been verified (glpG), and repressor protein (glpR) genes, complete cds	Cholosporidium felis heat shock protein 70 (NSP70) game portical cata	Bressica napus RPB6d mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C078	DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT	Saccharomyces cerevisiae MSS1 gene, complete eds	Homo saplens DiGeorge syndrome critical region, centromeric end	Homo sapiens KIAA0480 gene product (KIAA0480), mRNA	Homo sapiens KIAA0480 gene product (KIAA0480), mRNA	D.rerio zp-50 POU gene	D.rerio zp-50 POU gene	PHOSPHÖGLYCERATE KINASE, CYTOSOLIC	PHOSPHOGLYCERATE KINASE, CYTOSOLIC	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 4	NADH-UBIQUINONE OXIDOREDUCTASE CHAIN 4	Chlamydomonas reinhardtii chloroolast DNA for msg wrf4 wrf3 ms18 gangs	Chlamydomonas reinhardtii chloroplast DNA for rosg. vcf4. vcf3. ros18 ganes	PERIPLASMIC [NIFE] HYDROGENASE SMALL SUBUNIT (NIFE HYDROGENI YASE SMALL) OLANN	S.cerevisiae threatine deaminase (ILV1) gene, complete cds	Oryzlas latipes OIGC6 gene for guanylyl cyclase C. complete cds	Sus scrofa choline acetyltransferase gene, promoter region	HYPOTHETICAL 142.5 KD PROTEIN C23E2 02 IN CHROMOSOME I	TYPE I IODOTHYRONINE DEIODINASE (TYPE-I S'DEIODINASE) (DION (TYPE 1 DI) AEDI)	TYPE I IODOTHYRONINE DEIODINASE (TYPE-I S'DEIODINASE) (DION (TYPE-I DI) (SDI)	GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 3 PRECURSOR (N-METHYL D-ASPARTATE RECEPTOR SUBTYPE 30) (NDSON MANADON)	DEOXYHYPUSINE SYNTHASE (THIS)	GENOME POLYPROTEIN [CONTAINS: CAPSID PROTEIN C (CORE PROTEIN); MATRIX PROTEIN (ENVELOPE PROTEIN M); MAJOR ENVELOPE PROTEIN E; NONSTRUCTURAL PROTEINS NS1, NS28, NS28, NS48 AND NS48; HELICASE (NS3); RNA-DIRFCTED RNA POLYMEDASE (NS5).	retinoic acid nuclear receptor isoform beta 2 [mice, embryonal carcinoma cell line, PCC7-MZ1, mRNA, 2971 nt
Top Hit Database Source	· IN	Į.	N N	E	SWISSPROT	F	N	FN	NT	TN	IN	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	Z Z	N I	SWISSPROT	된	NT	N	SWISSPROT.	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	SWISSPROT	F
Top Hit Acession No.	M96795.1	8.1	1.7	8.2		7.1		7662155 NT	7662155 NT		0.00						.1			2								
Most Similar (Top) Hit BLAST E Value	3.6E+00 M96795.1	3.5E+00 AF22153	3.4E+00 AF25457	3.4E+00 AL16327	3.4E+00 P04052	3.4E+00 /	3.4E+00	3.3E+00	3.3E+00	3.2E+00 X96422.1	· 3.2E+00 X96422.1	3.2E+00 P12783	3.2E+00 P12783	3.2E+00 P18931	3.2E+00 P18931	3.2E+00 Y13655.1	3.2E+00 Y13655.1	3.2E+00 P13061	3.2E+00 M36383.1	3.2E+00 AB016081	3.2E+00 L33836.1	3.1E+00 Q10135	3.1E+00 P49894	3.1E+00 P49894	3.1E+00 Q14957	3.1E+00 P49365	3.1E+00 P33515	3.1E+00 S56660.1
Expression Signal	3.76	1.04	3.57	1.02	2.41	3.17	1.92	1.41	1.41	1.39	0.79	2.68	2.66	2.08	2.06	2.35	2.35	6.33	1.17	1.69	4.32	2.42	4.35	4.35	3.8	4.78	3.78	3.35
ORF SEQ ID NO:		22934	21260	22298	26378	27982	28919	24679	24680	20248	20248	25415	25416	25825	25826	26609	26610		27567	27932		25574	27067	27068		28009		
Exon SEQ ID NO:	18110	13133	11400	12406	16217	17739	18631	14908	14908	10435	10435	15359	15359	15713	15713	16427	16427	17098	17361	17687	18883	15497	16877	16877	17238	17770	17908	18591
Probe SEQ ID NO:	8228	3209	1496	2532	6354	7889	8818	2036	5036	492	3938	5439	5439	2808	9808	6929	6269	7221	7491	/83/	8080	2282	8	900	7334	7920	8759	8774

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Single Exon Probes Expressed

					Sin	gle Exon Prol	Single Exon Probes Expressed in Heart
Probe SEQ ID	Exon SEQ ID	ORF SEQ	Expression	Most Similar (Top) Hit BI AST E	Top Hit Acession	Top Hit Database	Top Hit Descriptor
ö	ë Ž		i i	Value	2	Source	
2807	12737	22635	1.06	3.0E+00	8923984 NT	Ψ	Homo saplens hypothetical protein PRO0889 (PRO0889), mRNA
5273		24970	1.63		3.0E+00 X53096.1	Ę	Saureus genes encoding Sau96I DNA methyltransferase and Saugis restriction enclosure
6245	1		9.6		3.0E+00 P18406	SWISSPROT	CYR61 PROTEIN PRECURSOR (3CH61)
7164	17041		1.45		3.0E+00 X67838.1	N-	B.napus DNA for myrosinase
8377	18054	28504	9	100	·		RETINAL GUANYLYL CYCLASE 2 PRECURSOR (GUANYLATE CYCLASE 2F, RETINAL) (RETGC-2) (ROD OUTER SEGMENT MEMBRANE GUANYLATE CYCLASE 2) (ROS-GC2) (GUANYLATE CYCLASE
3	1	10007	0.01	3.UE+UU P51842		SWISSPROT	F)(GCF)
8374	18254	28502	ď	2 05.00			RETINAL GUANYLYL CYCLASE 2 PRECURSOR (GUANYLATE CYCLASE 2F, RETINAL) (RETGC-2) (ROD OUTER SEGMENT MEMBRANE GUANYLATE CYCLASE 2) (ROS-GC2) (GUANYLATE CYCLASE
1964		21747	2.58	3.0E-400	0 10	SWISSEROI	() (supplemental to the supplemental to the su
6120	45076	20442	4 69	20.100	3		chilatifyaophilia predintritae Arxas, section 33 of 94 of the complete genome
0173	L		20.1	Z.9E+00		E	F.pringlei gdcsPA gene for P-protein of the glycine cleavage system
2979			4.47	2.9E+00 014514		SWISSPROT	BRAIN-SPECIFIC ANGIOGENESIS INHIBITOR 1 PRECURSOR
6282	_1	26301	4.47	2.9E+00 014514		SWISSPROT	BRAIN-SPECIFIC ANGIOGENESIS INHIBITOR 1 PRECURSOR
6410		26433	5.19	2.9E+00 P46589		SWISSPROT	ADHERENCE FACTOR (ADHESION AND AGGREGATION MEDIATING SURFACE ANTIGEN)
1441		21212	5.79	2.8E+00		NT	Buxus harlandii maturase K (matK) gene, partial cds. chloroplast gene for chloroplast product
1615	_		3.12	2.8E+00	2.8E+00 AL161552.2	N	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 52
6325		26350	4.78	2.8E+00	8393724 NT	Ę	Mus musculus endomucin (LOC53423), mRNA
230	10199	20012	4.63	2.7E+00	LN 9086299	N	Mus musculus per-hexamer repeat gene 3 (Phyra) mRNA
230		20013	4.63	2.7E+00	IN 9086499	F	Mus musculus per-hexamer repeat gene 3 (Phxx3), mRNA
5408		25377	1.75	2.7E+00	2.7E+00 L14005.1	NT	Homo sepiens aboA polymorphism Kringle IV gene exans 1 and 2
7185			2.21	2.7E+00	2.7E+00 AL116459.1	N.	Botrytis cinerea strain T4 cDNA library under conditions of nitronen dentivation
7996			2.16	2.7E+00	2.7E+00 BE063527.1	EST_HUMAN	CMO-BT0281-031199-087-h04 BT0281 Homo sapiens cDNA
4576	_1	24253	4.35	2.6E+00	2.6E+00 AF068749.1	F	Mus musculus sphingosine kinase (SPHK1b) mRNA, complete cds
5405	15324	25373	1.97	2.6E+00	6755601 NT	F	Mus musculus SRY-box containing gene 13 (Sox13), mRNA
6405	15324	25374	1.97	2.6E+00	6755601 NT	F	Mus musculus SRY-box containing gene 13 (Sox13), mRNA
6533	16391		5.42	2.6E+00	2.6E+00 AF235502.1	IN	Mus musculus SH2-containing inneited 5-phoening area (Chin) ages and the state of t
9699	16576	28767	1.2	2.6E+00			faba bean necrotic vellows virus C2-Francian Isolate Francian FV1-03
9699	16576	26768	1.2	2.6E+00			faba bean necrotic vellows virus C2-Eq gana isolate Equation EV1.03
7567	17418	27634	2.95	. 2.6E+00	2		Arabidopsis thallana DNA chromosome 4, confin fragment No. 40
7927	17777		1.52	2.6E+00	9055193 NT		Mus musculus cleavade and prohadendation sneptificity factor 3 (Chara)
9711	19649		2.31	2.6E+00	11419220 NT		Homo sapiens ATP-binding cassetts, sub-family B (MDR/TAP) momber 4 (ADDA), monta
1448	11353	21216	2.08	2.5E+00	2.5E+00 AJ271844.1		Aspergillus nidulans recQ gene for DNA helicase, exons 1-4

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Single Exon Probes Expressed in Heart	Expression Signal (Top) Hit Acession Top Hit Acession Top Hit Acession Top Hit Descriptor Signal BLASTE No. Source Source	2.08 2.5E+00 A.277844.1 INT Asperpillus ridulans rect) gene for DNA helicases aware 1.4	SWISSPROT	2.33 2.5E+00 P13485 SWISSPROT	T	SWISSPROT	Т	2.6E+00 D50307.1 NT	NT NT		P02843 SWISSPROT	Ī	2.4E+00 P26842 SWISSPROT	86.1 NT	6.1 EST HUMAN	SWISSPROT	2.4E+00 P13673 SWISSPROT	2.5 2.4E+00 P13673 SWISSPROT SKIN GRANULE PROTEIN PRECURSOR	Γ	SWISSPROT	Г	2.4E+00 BE326702.1 EST HUMAN	1.77 2.4E+00 Y14079.1 NT Bacillus subtilis chromosomal DNA, region 75 degrees: glpPFKD operon and downstream	2.52 2.4E+00 AF158652.2 NT Frantaria y ananassa nutreolin accordant annual 2.52	2.3E+00 Z46724.1	L'I	978554 NT	/ISSPROT		SWISSPROT	87.1 EST HUMAN	.1 EST_HUMAN
					L	L																										Ш
	Exan ORF SEQ ES NO:	11353 21217	15468 25537	15468 25538	15468 25537	15468 25538	16419 26598		18861	12907 22707		16613 26802	16613 26803	16659					17670 27911	17731			18302 28558	18554 28839	11140 20992	13934	16269 26431	19766	16431 26613	17165 27364	18793 . 29083	18793 29084
	Probe Ex SEQ ID SEC NO: NG			5552 15		Ш											_			l			8428 18:	8665 185	1233 111				6573 164	7289 171		8988 187

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Single Exon Probes Expressed in Heart

)	שום בעחוו ג ומי	Single Expressed in Heart
Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9304	19002	25333	4	2.3E+00	2.3E+00 BE895237.1	EST HUMAN	601433673F1 NIH MGC 72 Homo seniens cDNA clone IMAGE 3018843 F
9936			1.37	2.3E+00		LN L	Neurospora crassa G protein alpha subunit GNA-3 (ana-3) nana complete con
4216	14114		3.82	2.2E+00	l	IN	Rat gene for requealon, exon 1 (non-coding exon)
4216	14114	23892	3.82	2.2E+00	2.2E+00 D67071.1	IN	Rat gene for requeatin, exen1 (non-coding exen)
5276	15198	24973	10.08	2.2E+00 O88307	088307	SWISSPROT	SORTILIN-RELATED RECEPTOR PRECURSOR (SORTING PROTEIN-RELATED RECEPTOR CONTAINING LDLR CLASS A REPEATS) (MSORLA) (SORLA-1) (LOW-DENSITY LIPOPROTEIN RECEPTOR RELATIVE WITH 11 LIGAND-BINDING REPEATS) (LDLR RELATIVE WITH 11 LIGAND-BINDING REPEATS) (LDLR RELATIVE WITH 11 LIGAND-BINDING REPEATS) (LDLR REPEATS) (LB1) (>
527E	1510R	24074	40.00	i c			SORTILIN-RELATED RECEPTOR PRECURSOR (SORTING PROTEIN-RELATED RECEPTOR CONTAINING LDLR CLASS A REPEATS) (MSORLA-1) (LOW-DENSITY LIPOPROTEIN RECEPTOR RELATIVE WITH 11 LIGAND-BINDING REPEATS) (LDLR RELATIVE WITH 11 LIGAND-
9699		25707	906	2.2E+00 BE2503R	. 7	EST HIMAN	BINDING REPEATS) (LR11) (> 60004340171 NIH MGC 17 Home coming of the company of t
5835	15741	25853	3.3	2.2E+00 Q00335		SWISSPROT	MINOR VIRION STRUCTURAL PROTEIN MILES
5978		20002	2.89	2.2E+00 P51459		SWISSPROT	INSULIN-LIKE GROW TH FACTOR II PRECURSOR (IGE.II) (SOMATOMEDIN A)
6155	'		3.14	2.2E+00		EST HUMAN	nl95b02.s1 NCI_CGAP_Co10 Homo sapiens cDNA clone IMAGE-1058379.3
6486	16344	26514	51.56	2.2E+00	2.2E+00 AA449012.1	EST HUMAN	205g10.r1 Soares total fetus Nb2HF8 9w Homo saniens cDNA clane IMACE 725524 ET
7381	17250		11.83	2.2E+00 BE74167		EST HUMAN	601594733F1 NIH MGC 9 Homo sepiens cDNA clone IMAGE:304864 5
7518	19468		2.1	2.2E+00 Q04706		SWISSPROT	TRANSPOSON TY1 PROTEIN A
7783	17633	27865	1.56	2.2E+00	2.2E+00 AI290373.1	EST_HUMAN	em69b03.x1 Soares_placenta_8tx9weeks_2NbHP8tx98W Homo sapiens cDNA clone IMAGE:1893965.3' similar to gb:Y00433 GLUTATHIONE PEROXIDASE HIIMAN).
7783	17633	27866	1.56	2.2E+00 AI290373	-	EST HUMAN	qm69b03.x1 Scares_placenta_8tc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1893965 3' similar to db:Y00433 GLUTATHIONF PEROXIDASE (HI INAMA).
7812	17662	27902	2.28	2.2E+00	2.2E+00 BF246782.1	EST HUMAN	601855591F1 NIH MGC 57 Homo septens oDNA clone MACR: JA755301 F
7975	17825	28066	2.88	2.2E+00		N F	Homo sapiens ovarian granulosa cell 13.0 kDa protein hGR74 homoton mRNA
8739	17888	28132	4.5	2.2E+00 P07911		SWISSPROT	UROMODULIN PRECURSOR (TAMM-HORSFALL LIRINARY CI YCODROTEIN), JUDI
8883	18700	28995	4.67	2.2E+00 P10407		SWISSPROT	EARLY E1A 28 KD PROTEIN
227	12670	20304	6.81	2.1E+00 AF132612	2	F	Mus musculus pre-T cell receptor alpha dene, enhancer region and unstream region
3539	13455		1.19	2.1E+00	2.1E+00 AW449366.1	EST HUMAN	UI-H-BI3-aki-e-08-0-UI st NCI CGAP Sub5 Home saniens chind chare IMAGE:272-4660 21
6074	16057	26206	3.72	2.1E+00 O70159		SWISSPROT	ALPHA-2-HS-GLYCOPROTEIN PRECURSOR (FETUIN-A)
6195	15955	26087	4.7	2.1E+00 N29575.1		EST HUMAN	yy08a10.s1 Soares melanocyte ZNbHM Homo sapiens cDNA clone IMAGE:270618 3' similar to gb:M55654 TRANSCRIPTION INITIATION EACTOR TEILING AND AND A COMPANY.
6948	16826		1.99	2.1E+00/	-	Г	AU123630 NT2RM2 Home saniens cDNA clame NT2BN2200624 FI
1178	11089	20934	1.23	2.0E+00 AF180527	-	Т	Homo sapiens p22Dokdel (DOKDE) mRNA complete cuts
							(Colored International Colored International

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Table 4
Single Exon Probes Expressed in Heart

	(Top) Hit Top Hit Value Value 2.0E+00 AF1805. 2.0E+00 AF2049. 2.0E+00 PZ5582 2.0E+00 Z78279. 2.0E+00 AW6644. 2.0E+00 AW6644. 2.0E+00 AB0086.	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Signal Signal 1.1.2 1.1.2 2.0 2.0 2.0 3.1.4 4.6 8.6 8.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	Express Signs	Express Signs
NT NT SWISSPROT NT NT EST HUMAN		AF18052 AF20492 P25582 Z78279.1 Z78279.1 Z78279.1 AW66446 AB00867 AB00867 F31500.1	2.0E+00 AF78052 2.0E+00 P25582 2.0E+00 P25582 2.0E+00 Z78279.1 2.0E+00 AW66446 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 1.9E+00 G33627	1.23 2.0E+00 AF78052 1.43 2.0E+00 AF20492 3.13 2.0E+00 P25582 4.6 2.0E+00 Z78279.1 4.6 2.0E+00 Z78279.1 2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 4.67 1.9E+00 4.67 1.9E+00 Q63627	20935 1.23 2.0E+00 AF18052 21076 1.43 2.0E+00 AF20492 2.1890 4.6 2.0E+00 Z78279.1 23692 2.09 2.0E+00 Z78279.1 23693 2.09 2.0E+00 AW66446 26751 3.8 2.0E+00 AW66446 26752 3.8 2.0E+00 AW6687 26753 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 27241 4.67 1.9E+00 AB00867 25412 4.67 1.9E+00 Q63627
ISSPROT			2.0E+00 AF20492 2.0E+00 P25582 2.0E+00 Z78279.1 2.0E+00 AW66446 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 1.9E+00 AB00867 1.9E+00 AB00867 1.9E+00 AB00867 1.9E+00 AB00867 1.9E+00 AB00867 1.9E+00 AB00867	1.43 2.0E+00 AF20492 3.13 2.0E+00 P25582 4.6 2.0E+00 Z78279.1 4.6 2.0E+00 Z78279.1 2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 4.67 1.9E+00 4.67 1.9E+00 Q63627	21076 1.43 2.0E+00 AF20492 21890 4.6 2.0E+00 Z78279.1 21891 4.6 2.0E+00 Z78279.1 23692 2.09 2.0E+00 AW66446 26751 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 27249 5.81 2.0E+00 AB00867 25412 4.67 1.9E+00 25413 4.67 1.9E+00 Q83627
ISSPROT T HUMAN			2.0E+00 P25582 2.0E+00 Z78279.1 2.0E+00 Z78279.1 2.0E+00 AW66446 2.0E+00 AB00857	3.13 2.0E+00 P25682 4.6 2.0E+00 Z78279.1 4.8 2.0E+00 Z78279.1 2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 4.67 1.9E+00 4.67 1.9E+00 4.67 1.9E+00 4.67 1.9E+00	21890 4.6 2.0E+00 PZ5582 21891 4.6 2.0E+00 Z78279.1 23692 2.09 2.0E+00 Z78279.1 23693 2.09 2.0E+00 AW6644 26751 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 26753 3.8 2.0E+00 AB00867 27237 3.8 2.0E+00 AB00867 24998 5.81 2.0E+00 F51500.1 25412 4.67 1.9E+00 G83627 2500 2.27 1.9E+00 G83627
T HUMAN			2.0E+00 Z78279.1 2.0E+00 AW66446 2.0E+00 AB00857 2.0E+00 AB00857 2.0E+00 AB00857 2.0E+00 AB00857 2.0E+00 AB00857 2.0E+00 AB00857 1.9E+00 G33627	4.6 2.0E+00 Z78279.1 4.8 2.0E+00 Z78279.1 2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.3 2.0E+00 AB00867 4.67 1.9E+00 G31500.1 4.67 1.9E+00 G3327	21890 4.6 2.0E+00 Z78279.1 21891 4.6 2.0E+00 Z78279.1 23692 2.09 2.0E+00 AW6644¢ 23693 2.09 2.0E+00 AB00867 26761 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 26753 3.8 2.0E+00 AB00867 27237 3.3 2.0E+00 AB00867 25412 4.67 1.9E+00 AB00867 25413 4.67 1.9E+00 Q63627 2500 2.27 1.9E+00 Q63627
T HUMAN			2.0E+00 Z78279.1 2.0E+00 AW66446 2.0E+00 AB00857 2.0E+00 AB00857 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 F31500.1 1.9E+00 Q63627	2.09 2.0E+00 AW66446 2.09 2.0E+00 AW66444 3.8 2.0E+00 AB00867 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00	23692 2.0E+00 Z78279.1 23692 2.09 2.0E+00 AW6644¢ 23693 2.09 2.0E+00 AW6644¢ 26761 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 26763 3.8 2.0E+00 AB00867 27237 3.3 2.0E+00 F31500.1 24998 5.81 2.0E+00 F31500.1 25412 4.67 1.9E+00 C8527 2500 2.27 1.9E+00 Q63627
			2.0E+00 AW66446 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 F31500.1 1.9E+00 G33627 1.9E+00 G33627	2.09 2.0E+00 AW66446 2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.3 2.0E+00 F31500.1 6.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00	23692 2.09 2.0E+00 AW66446 23693 2.09 2.0E+00 AW66446 26761 3.8 2.0E+00 AB00867 26752 3.8 2.0E+00 AB00867 26753 3.8 2.0E+00 AB00867 27237 3.3 2.0E+00 AB00867 25412 4.67 1.9E+00 25413 4.67 1.9E+00 25713 2.27 1.9E+00 25713 2.27 1.9E+00
			2.0E+00 AW66446 2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 1.9E+00 1.9E+00 1.9E+00 Q63627	2.09 2.0E+00 AW66446 3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.3 2.0E+00 AB00867 5.81 2.0E+00 6.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00	23693 2.09 2.0E+00 AW66446 26751 3.8 2.0E+00 AB00857 26752 3.8 2.0E+00 AB00857 26753 3.8 2.0E+00 AB00857 27237 3.3 2.0E+00 P31500.1 24998 5.81 2.0E+00 25412 4.67 1.9E+00 25413 4.67 1.9E+00 Q63627
hi13c05.x1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2972168 3' similar to gb:X01677 EST_HUMAN GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE INFR (HI MAN)			2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 1.9E+00 1.9E+00 1.9E+00	3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.3 2.0E+00 F31500.1 6.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00	26761 3.8 2.0E+00 AB00897 26752 3.8 2.0E+00 AB00897 26753 3.8 2.0E+00 AB00867 27237 3.3 2.0E+00 F31500.1 25412 4.87 1.9E+00 25413 4.67 1.9E+00 25000 2.27 1.9E+00 Q63627
П			2.0E+00 AB00867 2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 1.9E+00 Q63627	3.8 2.0E+00 AB00867 3.8 2.0E+00 AB00867 3.3 2.0E+00 F31500.1 5.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00	26752 3.8 2.0E+00 AB00857 26753 3.8 2.0E+00 AB00857 27237 3.3 2.0E+00 F31500.1 24998 6.81 2.0E+00 25412 4.67 1.9E+00 25413 4.67 1.9E+00 25000 2.27 1.9E+00 Q63627
			2.0E+00 AB00867 2.0E+00 F31500.1 2.0E+00 1.9E+00 1.9E+00 Q63627	3.8 2.0E+00 AB00867 3.3 2.0E+00 F31500.1 5.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00	26753 3.8 2.0E+00 AB00867 27237 3.3 2.0E+00 F31500.1 24998 5.81 2.0E+00 25412 4.67 1.9E+00 25413 4.67 1.9E+00 25000 2.27 1.9E+00 Q63627
NT Escherichia coli 0157 DNA, map position at 48 min., complete cds			2.0E+00 F31500.1 2.0E+00 1.9E+00 1.9E+00 Q63627	3.3 2.0E+00 F31500.1 5.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00 Q63627	27237 3.3 2.0E+00 F31500.1 24998 5.81 2.0E+00 25412 4.67 1.9E+00 25413 4.67 1.9E+00 Q63627 227 1.9E+00 Q63627
EST_HUMAN HSPD22703 HM3 Homo sapiens cDNA clone s4000117B08	583484 675436 675438	100000	2.0E+00 1.9E+00 1.9E+00 4.9E+00 Q63627	5.81 2.0E+00 4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00 Q63627	25412 4.67 1.9E+00 25413 4.67 1.9E+00 Q63627
	6754389 NT 6754389 NT	10000	1.9E+00 1.9E+00 Q63627	4.67 1.9E+00 4.67 1.9E+00 2.27 1.9E+00 Q63627	25412 4.67 1.9E+00 25413 4.67 1.9E+00 2.27 1.9E+00 Q63627
	6754389 NT	- I.	1.9E+00 Q63627	4.67 1.9E+00 2.27 1.9E+00 Q63627	25413 4.67 1.9E+00 2.27 1.9E+00 Q63627
		100000 C		2.27	2.27
	.	1.8ETUU QOSOZI			25000
		1.9E+00 P02467		2.58	7.05
			1.9E+00 P02467	1.9E+00 P02467	27000 2.58 1.9E+00 P02467
	06.1	81	1.9E+00 BF360206	1.9E+00 BF360206	3.36 1.9E+00 BF360206
SWISSPROT ARGININE DEIMINASE (ADI) (ARGININE DIHYDROLASE) (AD)		1.9E+00 O51781		1.86	1.86
		1.8E+00 P21004	1.71 1.8E+00 P21004		1.71
	,	4 000 00 10 4000 4			07.7
N I (apr.) genes, complete cds		1.957400 004530.1	1.450 0.04500.1	Q+:+	05:4
Synechococcus sp. PCC7942 copper transporting P-ATPase (ctaA) and ATP synthase epsilon subunit (4hE) censes complete cds	_	1.8E+00 U04356.1	4.48 1.8E+00 U04356.1		4.48
ISSPROT		1.8E+00 P18502	2.22 1.8E+00 P18502		222
	39.1	1.8E+00 BF311999.1	1.9 1.8E+00 BF311999.1		1.9
Т	52.1	1.8E+00 BF305652.1	1.3 1.8E+00 BF305652.1	1.8E+00 BF305652	1.3 1.8E+00 BF305652
Т			1	1.8E+00 043281	27210 2.09 1.8E+00 043281
П	_	1.8E+00 R31042.1	· 1.21 1.8E+00 R31042.1	. 1.21	27369 · 1.21
Γ	19.1	18	1.8E+00 AF111849	1.8E+00 AF111849	3.29 1.8E+00 AF111849
SWISSPROT HYPOTHETICAL 75.5 KD PROTEIN IN SDH1-CIM5/YTA3 INTERGENIC REGION		1.8E+00 P36062	3.76 1.8E+00 P36062		

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	Top Hit Descriptor	Chlamydomonas reinhardii alternative oxidase 1 (AOX1) cene, nuclear gene encoding mitochondrial profesio	b (Aroc1b) mRNA	A clone IMAGE:4135586 5'	LEVANSUCRASE (BETA-D-FRUCTOFURANOSYL TRANSFERASE) (SUCROSE 6-FRUCTOSYL TRANSFERASE)	80	cDNA clone IMAGE:1678137 3'	LEVANSUCRASE (BETA-D-FRUCTOFURANOSYL TRANSFERASE) (SUCROSE 6-FRUCTOSYL TRANSFERASE)	piens cDNA	ylens cDNA	(1)(COUP-TF1)	1 clone IMAGE:4140084 5'			rary Homo sabiens cDNA not directional	tu82d07.xf NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2257549 3' similar to contains MSR1.tf MSR1 repetitive element:	4750b01.x1 Soares_testis_NHT Homo sapiens cDNA done IMAGE:1753417.3' similar to contains L1.t1 L1	the second section of the section of the second section of the section of the second section of the second section of the section of the second section of the section of t	delie, auchitatively splitted, complete cas			2d25f01.rl Soares_fetal_heart_NbHH19W Homo sapiens cDNA done IMAGE:341689 5' similar to db:D28805 N-ACETY11 ACTOSAMINE SYNTHASE (HI IMAN).	\ clone IMAGE:4310591 3'	votein (SMARCA6) mRNA complete cds	votein (SMARCA6) mRNA, complete cds			3, 3' end	iens cDNA
Single Exon Probes Expressed in Heart		Chlamydomonas reinhardii alternative oxidas	Rettus norvegicus Actin-related protein complex 1b (Arnc1b), mRNA	601903309F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135586 5	LEVANSUCRASE (BETA-D-FRUCTOFURA TRANSFERASE)	Homo sapiens chromosome 21 segment HS21C080	oz43h05.x1 Sogres NhHMPu S1 Homo sapiens cDNA clone IMAGE:1678137 3	LEVANSUCRASE (BETA-D-FRUCTOFURA TRANSFERASE)	CM0-BT0282-171299-127-e05 BT0282 Homo sapiens cDNA	CM0-BT0282-171299-127-e05 BT0282 Homo sapiens cDNA	COUP TRANSCRIPTION FACTOR 1 (COUP-TF1) (COUP-TF1)	601894255F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4140084 5	HOMEOBOX PROTEIN DLX-3	HOMEOBOX PROTEIN DLX-3	6787 Human retina cDNA Tsp5091-cleaved sublibrary Homo sapiens cDNA not directional	tu82d07.x1 NCI_CGAP_Gas4 Homo sapiens MSR1 repetitive element:	qf50b01.x1 Soares_testis_NHT Homo sapier	Home sanions lone entitledition derived arrandle feeter some all	Homo sapiers small proline-rich protein (SPRR3) gene exons 1.2 and 3 and commiste cas	Mus musculus ST6GalNAcill gene, exon 2	B.napus gene encoding endo-polygalacturonase	2d25f01.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA ob:D29805 N-ACETY1 ACTOSAMINE SYNTHASE (11) MANY	602186095T1 NIH MGC 45 Homo sapiens cDNA clone IMAGE:4310591 3	Homo sapiens proliferation-associated SNF2-like protein (SMARCAB) mRNA complete cds	Homo sapiens proliferation-associated SNF2-like protein (SMARCA6) mRNA complete cds	Mus musculus ST6GalNAcili gene, exon 2	Mus musculus ST6GallNAcIII gene, exon 2	Brachydanio rerio MHC class II DA-beta-2*01 gene, 3' end	RC0-CT0415-200700-032-c10 CT0415 Homo sapiens cDNA
gle Exon Pro	Top Hit Database Source	Į.	LN L	EST_HUMAN	SWISSPROT	F	EST_HUMAN	SWISSPROT	EST_HUMAN	EST HUMAN	SWISSPROT	EST_HUMAN	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	ECT LIMAN	TO TO	NT	NT	NT	EST HUMAN	EST HUMAN	N	N	NT	NT	NT	EST_HUMAN
Sin	Top Hit Acession No.	1.8E+00 AF314254.1	9506404 NT	BF316805.1	Q60114	AL163280.2	AI141067.1	Q60114	1.7E+00 BE063546.1	BE063546.1	Q9TTR8	BF308000.1	060479	060479	W22424.1	1.7E+00 Al678443.1	A1408579 4		1.4			W58426.1	Σ.	Σ.	1.1				7.1
	Most Similar (Top) Hit BLAST E Vafue	1.8E+00	1.8E+00	1.8E+00 BF31680	1.7E+00 Q60114	1.7E+00 AL163280	1.7E+00 AI141067	1.7E+00 Q60114	1.7E+00	1.7E+00 BE06354	1.7E+00 Q9TTR8	1.7E+00 BF30800(1.7E+00 O60479	1.7E+00 O60479	1.7E+00 W22424.	1.7E+00	4 7E±00 Al408579	1.6E+00 AF19933	1.6€+00	1.6E+00 Y11344.1	1.6E+00 X98373.1	1.6E+00 W58426.	1.6E+00 BF570077	1.6E+00 AF 155827	1.6E+00 AF15582	1.6E+00 Y11344.1	1.6E+00 Y11344.1	1.6E+00 L04808.1	1.6E+00 BE69726
	Expression Signal	4.01	2.4	1.34	1.92	3.25	1.02	0.84	1.48	1.48	3.58	1.29	2.15	215	1.78	1.37	80.0	16.73	3.61	. 1.98	1.48	2.62	5.14	1.44	1.44	3.14	3.14	2.19	2.84
-	ORF SEQ ID NO:				20849		22101	24037	25424	25425	25673		27355	27356	28977	25306	25185	21775	24783	21788		22658		23928	23929	24657	24658	25546	26317
	Exan SÉQ ID NO:	19584	19119	19429	11008	12110	12202	14252	15369	15369	15575	16891	19467	19467	18686	19044	19351	11882	11891	11896	12122	12858	13854	14154	14154	14830	14890	16474	16160
	Probe SEQ ID NO:	9428	9204	8968	1092	2225	2321	4356	6448	5448	5664		7282	7282	8874	9384	9860	1989	1997	2003	2238	2934	3946	4255	4255	5016	5016	9228	6296

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Single Exon Probes Expressed in Heart	Most Similar Top Hit Acession Database Source Source	1.6E+00 Q46378 SWISSPROT VIRULENCE FACTOR MVIN HOMOLOG	П	1.6E+00 X52046.1 NT M.musculus COL3A1 gene for collegen alpha-i	1.6E+00 X52046.1 NT M.musculus COL3A1 gene for collagen alpha-l	EST_HUMAN	1.6E+00 AW835644.1 EST_HUMAN QV4-LT0016-090200-100-407 LT0016 Home saplens cDNA		F	둗	1.6E+00 AV764043.1 EST_HUMAN AV764043 MIDS Homo sapiens cDNA clone MDSDAH08 5		1.5E+00 AE002201.2 NT Chlamydophila pneumoniae AR39, section 32 of 94 of the complete genome	52961 NT		78350 NT		Z	EST_HUMAN	1.5E+00/BE785356.1 EST_HUMAN 601478745F1 NIH MGC 68 Homo sapiens cDNA clone IMAGE:3881555 51	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	Г	9.1 EST_HUMAN	7.1 EST_HUMAN	X07380.1 NT	3287 NT	1.5E+00 AL445065.1 NT Thermoplasma acidophilum complete genome; segment 3/5	1.5E+00 6978492 NT Rattus norvegicus 5 - Lipoxygenase (Alox5), mRNA		7661685 NT	1.4E+00/AF053357.1 NT Helicobacter pylori glutamine synthetase (glnA) gene, complete cds
Single Exo			1.1				4.1	4.1		C 1	EST		1.2	6752961 NT		6678350 NT	7.									9.1	.1		6753287 NT		6978492 NT	7661685 NT		.1
		1.6E+00 Q	1.6E+00 A.	1.6E+00 X	1.6E+00 X	1.6E+00 T	1.6E+00 A	1.6E+00 A\	1.6E+00 A	1.6E+00 AI	1.6E+00 A\	1.5E+00 U.	1.5E+00 AE	1.5E+00	1.5E+00 A	1.5E+00	1.5E+00 AJ	1.5E+00 AE	1.5E+00 R1	1.5E+00 BE	1.5E+00 P4	1.5E+00 P4	1.5E+00 BF	1.5E+00 BF	1.5E+00 AA	1.5E+00 AA	1.5E+00 AL	1.5E+00 X0	1.5E+00	1.5E+00 AL	1.5E+00	1.4E+00	1.4E+00	1.4E+00 AF
	Expression Signal	1.21	3.56	1.3	1.3	1.29	1.25	1.25	5.86	3.25	1.65	4.29	1.76	1.79	2.46	2.02	222	0.82	2.71	1.42	29.13	29.13	7.56	1.71	1.96	1.96	3.91	10.73	1.5	2.89	1.42	1.28	1.28	0.95
	ORF SEQ ID NO:		26958	26646	26647	27679	27946	27947	25601	29047		19812	20014		22135	22237	22135	23054	25880		26268	26269	27747		27951	27952	28802					19808	18809	
	Exon SEQ ID NO:	16561	16760	19465	19465	17462	17702	17702	15520	18752	19379	10017	10200	10541	12239	12344	12239	13249	15762	16096	16116	16116	17521	17632	17706	17706	18520	18641	18946	19178	19243	10014	10014	12116
	Probe SEQ ID NO:	6681	6881	7444	7444	7611	7852	7852	8217	8944	9902	စ္က	33	605	2359	2468	3099	3329	5856	6230	6250	6250	7671	7782	7856	7856	8702	8828	9223	9236	0696	27	27	2231

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					<u>.</u>	אם דעחון ג יהי	Single Excit Flower Expressed in Heart
Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
829	10498		1.67	1.3E+00	1.3E+00 Z73640.1	F	M.mucedo gene encoding 4-Dihydromethyl-trisnorate dehydrogenese
884	10810	20859	274		1.3E+00 AJ271192.1	Į.	Cantharellus sp. partial 25S rRNA gene. isolate Tibet
1113			16.5		1.3E+00 Y19213.1	N.	Homo sapiens putative psihHbA pseudogene for hair keratin exons 2 to 7
1275	11183	21033	10.9	1.3E+00	4507998 NT	F	Homo sapiens zinc finger protein 157 (HZF22) (ZNF157) mRNA
1275		21034	10.9	1.3E+00	TN 8667998 NT	N E	Homo sapiens zinc finger protein 157 (HZF22) (ZNF157) mRNA
1334			1.62	1.3E+00	1.3E+00 U61730.2	K	Cotx lacryma-jobi dihydrodipicolinate synthase (dapA) gene complete cds
1593	11497		2.09		32	Ę	Chlamydia muridarum, section 66 of 85 of the complete genome
2198	12083	·	2.1	1.3E+00	1.3E+00 AB030447.1	Ę	Opprinus carplo MRPb and MASPb genes for mannose-binding lectin-associated serine protease (MASP) and MASP-related profess complete ode
2503	12378		219	1.3E+00	7	EST HUMAN	601661233R1 NIH MGC 72 Homo seniors CINIA clara NAA CE 201 E016
2909	12835	22632	1.12	. 1.3E+00	755621	1	Mus musculus alphe-spectrin 1, erythroid (Spna1), mRNA
							Fugu rubripes gamma-aminobutyric acid receptor beta subunit gene, partial cds; 55kd erythrocyte membrane
3547	13463	23258	1.03	1.3E+00	1.3E+00 AF016494.1	5	protein (P55), synaptic vesicle-associated integral membrane protein (VAMP-1), procollagen C-proteinase enhancer protein (PCOLOR) comes commisted to
. 4502	12835	22632	0.82	1.3E+00	755621	Į.	Mus musculus alpha-spectrin 1 enthroid (Sma1) mRNA
4964	14839	24607	96.0	1.3E+00		PZ PZ	Plasmodlum reichenowi partial 83/AMA-1 dene for aplical membrane antinen 1
4964	14839		86.0	1.3E+00	1.3E+00 AJ252087.1	F	Plasmodium reichenowi partial 83/AMA-1 gene for apical membrane antinen 1
5665	15576		7.76	1.3E+00	4.1	EST HUMAN	PM0-CT0289-291199-004-f08 CT0289 Homo sapiens cDNA
5665	15576		7.76	1.3E+00	1.3E+00 AW362834.1	EST_HUMAN	PMo-CT0289-291199-004-f08 CT0289 Homo saplens cDNA
5864	15770	25889	1.33	1.3E+00		F	D.melanogaster no-on-transient A gene product, complete cds
6828	16707	26901	1.25	1.3E+00	1	N	Sus scrofa plp gene
6917	16795	26988	3.06	1.3E+00		EST_HUMAN	601657145R1 NIH_MGC_67 Homo saplens cDNA clone IMAGE:3866195 3'
7054	16931		1.55	1.3E+00	910247	ᅜ	Homo sapiens GL004 protein (GL004), mRNA
7480	17350		5.44	1.3E+00	4.1	TN	Homo sapiens heparan glucosaminy N-deacetylase/N-sulfotransferase-2 gene, complete crts
7487	17357	27560	2.31	1.3E+00	1.3E+00 X72019.1	IN	S.alba phr-1 mRNA for photolyase
7487	17357	27561	2.31	1.3E+00	1.3E+00 X72019.1	F	S.alba phr-1 mRNA for photolyase
7574	17425	27639	1.45	1.3E+00 000754		SWISSPROT	LYSOSOMAL ALPHA-MANNOSIDASE PRECURSOR (MANNOSIDASE, ALPHA B) (LYSOSOMAL ACID ALPHA-MANNOSIDASE) (I AMAN)
7620	17471	27690	1.27	1.3E+00	1.3E+00 Al927629.1	Г	wo85a07.x1 NCI CGAP Kid11 Homo saniens CDNA clima MAACE-2462400 2
7675	17525	27751	4.9	1.3E+00	1.3E+00 BE963379.2	П	601657145R1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3886105 3'
7866	17716	27961	1.6	1.3E+00			Vibrio cholerae chromosome II, section 49 of 93 of the complete chromosome
7874	17724	27968	1.39	1.3E+00	1.3E+00 M29953.1	Į.	Campylobacter Jeluni kanamycin phosphotransferase (aphA-7) gene complete cde
8078	17969		4.3	1.3E+00 Q14117		Г	DIHYDROPYRIMIDINASE (DHPASE) (HYDANTOINASE) (DHP)
8277	18157	28398	234	1.3E+00 P25299		SWISSPROT	MRNA 3'-END PROCESSING PROTEIN RNA15

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		Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	┰	Т	7	Т	T	\neg	$\overline{}$		_	\top	Т	Т	Т	7	Т	7	Т	7	Т	_	_	_
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Mus musculus desmin gene	xp09e03.xd NCI_CGAP_HN9 Homo sapiens cDNA_clone IMAGE-2739888 31	Human mRNA for KIAA0085 gene, partial cds	Bacillus subtilis genomic DNA 23.9kB fragment	Cavia porcellus Irwardly-rectifying potassium channel Kir. 22 (KCNJ12) gene complete cals	602023185F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE-4158452 5'	E1 GLYCOPROTEIN PRECURSOR (MATRIX GLYCOPROTEIN) (MEMBRANE CLYCOPROTEIN)	यं22d08.s1 Soares, fetal liver spleen 1NFLS S1 Homo saplens cDNA clone IMAGE-4345व र	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-(III)	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-III)	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PFHRP-III)	Homo sapiens hypothetical protein PRO3077 (PRO3077) mRNA	Elasis oleifera sesquiterpene synthase mRNA, complete cds	pea seed-borne mosaic virus complete genome	pea seed-borne mosaic virus complete genome	Homo sapiens G-protein coupled receptor 14 (GPR14) gene, complete cds	Homo saplens mRNA for KIAA0874 protein partial cats	Arabidopsis thallana DNA chromosome 4, contin tradment No. 63	Arabidopsis thallana DNA chromosome 4. config fragment No. 63	CONJUGAL TRANSFER PROTEIN TRBE PRECURSOR	Homo sapiens LHX3 gene, intran 2	G.gallus T-cadherin mRNA, complete cds	Mus musculus subtilisin-like serine protease LPC (PC7) gene, exons 1 to 9, partial cds	MR0-FT0175-050900-203-906_1 FT0175 Hano sapiens cDNA	Homo sapiens LHX3 gene, intron 2	Rattus norvegicus Glycine receptor alpha 2 subunit (alycine receptor negnatal) (Glraz) mRNA	Rattus rattus cardiac AE3 gene, exons 1-23	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 21	Homo sapiens post-synaptic density 95 (DLG4) gene, complete cds	T. plnnatum chloroplast rbcL gene, partial	G.gallus T-cadherin mRNA, complete cds	MR3-ST0191-140200-013-c05 ST0191 Homo sapiens cDNA	D.hydel ay/ repeat cluster DNA, fragment D	QV4-BN0090-270400-190-e03 BN0090 Homo sapiens cDNA
gle Exon Pro	Top Hit Database Source	F	EST HUMAN	N	LN	F	EST_HUMAN	SWISSPROT	EST_HUMAN	SWISSPROT	SWISSPROT	SWISSPROT	N	N.	F	Ę	F	LN LN	Ę	본	SWISSPROT	N	N FN	NT	EST_HUMAN	F	F	Ę	NT	NT	NT	IN	EST_HUMAN	NT	EST_HUMAN
SIN SIN	Top Hit Acession No.	218892.2	AW274791.1	042042.1	298682.1	4F187873.1	1.3E+00 BF348043.1	233464	6.1		205228	905228	8924234 NT	AF080245.2	2.1	2.1		1.2E+00 AB020681.1			54910	0.1			0.1	0.1	6980951 NT	_	9.2	5.1			76.1		3.1
	Most Similar (Tcp) Hit BLAST E Value	1.3E+00 Z18892.2	1.3E+00 AW2747	1.3E+00 D42042.	1.3E+00 Z98682.1	1.3E+00 AF18787	1.3E+00	1.3E+00 P33464	1.2E+00 AA67624	1.2E+00 P05228	1.2E+00 P05228	1.2E+00 P05228	1.2E+00	1.2E+00 AF08024	1.2E+00 AJ25224	1.2E+00 AJ25224	1.2E+00 /	1.2E+00 /	1.2E+00	1.2E+00/	1.2E+00 P54910	1.2E+00	1.2E+00 M81779.	1.2E+00 U75902.1	1.2E+00 BF37357	1.2E+00 AF18874	1.2E+00	1.2E+00 M87060.	1.2E+00 AL16150	1.2E+00 AF15649	1.2E+00 Y09200.1	1.2E+00 M81779.	1.2E+00 AW81327	1.2E+00 X74885.1	1.2E+00 BE00311
	Expression Signal	2.23	1.81	2.82	2.71	2.35	3.24	2.68	8.14	1.33	1.33	1.33	2.19	5.53	1.77	1.77	1.05	0.95	5.41	5.41	2.9	0.78	0.99	7.28	1.49	1.09	1.39	1.64	1.26	1.82	5.44	0.94	1.96	2.47	3.28
	ORF SEQ ID NO:	28424		28923	28999		25263		20384			20580		20901	20943	20944	21746	22789	22851	22852		23038		23350	23598	23038	23981		24102	24145			25379	25753	25783
	Exon SEQ ID NO:	18178	18510	18639	18705	19033	19139	19499	10571	10735	10735	10735	10786	11058	11097	11097	11857	12999	13053	13053	13172	13232	13233	13564	13814	13232	14196	14267	14316	14354	14379	13233	15329	15647	15676
	Probe SEQ ID NO:	8299	8646	8826	8895	9362	9533	9544	634	808	806	808	860	1145	1187	1187	1963	3072	3128	3128	3249	3311	3312	3650	3904	4201	4298	4371	4422	4460	4485	4584	2409	5739	5769

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Table 4
Single Exon Probes Expressed in Heart

Top Hit Descriptor	C.glutarnicum pta gene and ackA gene	C.glutamicum pta gene and ackA gene	ah84g12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1322374 3'	MR3-ST0191-140200-013-c05 ST0191 Homo sapiens cDNA	Mus musculus DSPP gene	AV734585 cdA Homo sapiens cDNA clone cdAAFH03 5'	Liactis pyrD and pyrF genes	Homo sapiens mRNA for KIAA1204 protein, partial cds	MR2-CT0222-201099-001-e07 CT0222 Homo sapiens cDNA	R.communis gene for pyrophosphate-dependent phosphofructokinase beta subunit	HUMHM01A01 Liver HepG2 cell line. Homo sapiens cDNA clone hm01a01	H.saplens ENO3 gene for muscle specific enolase	PM0-ST0264-161199-001-d01 ST0264 Homo sapiens cDNA	PM1-HT0422-160200-007-g10 HT0422 Homo sapiens cDNA	Rattus norvegicus synapse-associated protein 102 mRNA, complete cds	Mus musculus 60 kDa ribonucleoprotein SSA/Ro gene, complete cds	Homo sapiens chromosome 21 segment HS21C003	Bacillus halodurans genomic DNA, section 9/14	Human mRNA for KIAA0227 gene, partial cds	QV0-BN0042-170300-163-g12 BN0042 Homo sapiens cDNA	ULHF-BR0p-alk-1-02-0-UI.s1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3074834 3'	Homo sapiens chromosome 21 segment HS21C013	Homo sapiens chromosome 21 segment HS21C013	Homo saplens hypothetical protein FLJ10749 (FLJ10749), mRNA	Homo sapiens hypothetical protein FLJ11280 (FLJ11280), mRNA	wf54h11x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359461 3' similar to	SW.P531_HUMAN Q12888 P53-BINDING PROTEIN 53BP1;	Xylella fastidiosa, section 32 of 229 of the complete genome	Xylella fastidiosa, section 32 of 229 of the complete genome	Homo sapiens calpain 9 (nCL-4) (CAPN9) mRNA	Homo sapiens hypothetical protein FLJ10749 (FLJ10749), mRNA	R.unicomis complete mitochondrial genome	Drosophila melanogaster cytoplasmic dynein heavy chain mRNA, complete cds	African swine fever virus, complete genome
Top Hit Database Source	NT	Ę	EST_HUMAN	EST_HUMAN	LN.	EST HUMAN	- E	N	EST HUMAN	NT	EST_HUMAN	N	EST HUMAN	EST_HUMAN	NT	ᅜ	Į.	N	Z	EST_HUMAN	EST_HUMAN	NT	NT	N	NT		EST HOMAN	LN.	L	N	NT	NT	NT	NT
Top Hit Acession No.	(89084.1	(89084.1	AA759254.1	W813276.1	1,1002141.1	5.1		\B033030.1	0.1		11745.1	(56832.1	W817817.1	3E160761.1	J50147.1	1.2E+00 AF065398.1	AL163203.2		386980.1	1.1E+00 AW995393.1			1.1E+00 AL 163213.2	- 8922641 NT	8922973 NT				\E003886.1	5729757 NT	8922641 NT	5835331 NT		
Most Similar (Top) Hit BLAST E Value	1.2E+00 X89084.1	1.2E+00 X89084.1	1.2E+00 AA75925	1.2E+00 AW81327	1.2E+00 AJ002141	1.2E+00 AV73458	1.2E+00 X74207.1	1.2E+00 AB03303	. 1.2E+00 AW37721	1.2E+00 Z32850.1	1.2E+00 D11745.1	1.2E+00 X56832.1	1.2E+00 AW81781	1.2E+00 BE16076	1.2E+00 U50147.1	1.2E+00 /	1.2É+00 AL163203	1.2E+00 /	1.1E+00 D86980.1	1.1E+00 A	1.1E+00 A	1.1E+00	1.1E+00	1.1E+00	1.1E+00		1.1E+00 AI808360.	1.1E+00 /	1.1E+00 AE00388(1.1E+00	1.1E+00	1.1E+00	1.1E+00	1.1E+00 U18466.1
Expression Signal	1.87	1.87	32.83	1.82	2.55	1.9	2.4	3.45	1.74	3.08	1.8	3.28	. 2.03	23.47	4.87	2.5	15.4	1.49	1.13	1.39	0.92	6.61	6.61	0.93	1.26		66.0	1.16	1.16	17.81	0.99	5.89	1.18	2.92
ORF SEQ ID NO:	25815	25816	25841	. 25949	26121	26392	26544		27285	27480	27601	27786	28826			28787	25067		20217	21496				23165							23565		24520	
Exen SEQ ID NO:	15704	15704	15729	15823	15986	19463	16367		17095	17274	17391	17561	18542		17901	18877		19025	10400	11627					13426	,	1							14800
Probe SEQ ID NO:	5798	5798	5823	5918	6139	6369	6508	6984	7218	7407	7540	7711	8653	8689	8752	9114	9330	9349	456	1726	1857	3288	3288	3441	3510	i	1505	365/	3657	3678	3862	4122	4860	4921

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Probe Earl No. Probe Earl Signal (Top) HI Aceason Top H						5		Single Later Probes Expressed in hear
14874 24638 1.16 1.1E+00 KT8425.1 NT 16772 24945 1.57 1.1E+00 6978530 NT 16380 25426 1.204 1.1E+00 BE860184.1 EST_HUMAN 16283 25444 1.39 1.1E+00 AL7338.1 NT 16284 26446 1.39 1.1E+00 AL7338.1 NT 16285 26486 7.83 1.1E+00 AL7338.1 NT 16286 26789 3.22 1.1E+00 AL61588.2 NT 17608 2773 1.65 1.1E+00 AL61588.2 NT 17544 27815 2.00 1.1E+00 AL61516.2 NT 17540 27816 2.00 1.1E+00 AL61516.2 NT 17834 2781 1.1E+00 AL61516.2 NT 17840 2.73 1.1E+00 AL61516.2 NT 18323 28881 4.41 1.1E+00 AF60896.1 NT	Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.		Top Hit Descriptor
15370 24945 1,57 1,1E+00 6978530 NT 15370 25426 12.04 1,1E+00 BE360184.1 EST_HUMAN 16283 25446 1,29 1,1E+00 A13682.1 EST_HUMAN 16283 25446 1,39 1,1E+00 Z7238.1 NT 16284 2,646 7,83 1,1E+00 A141588.2 RST_HUMAN 16286 26468 7,63 1,1E+00 A141588.2 NT 16008 26789 3,22 1,1E+00 A141588.2 NT 17608 27781 4,39 1,1E+00 A1416156.2 NT 17604 27781 20.08 1,1E+00 A169342.1 NT 17604 27815 2.05 1,1E+00 A702862.1 NT 1784 2882 4,41 1,1E+00 A702862.1 NT 1855 2888 4,41 1,1E+00 A702862.1 NT 1855 2888 4,73 1,1E+00 A702862.	4999			1.18	1.1E+00	X78425.1	N	E.faecalis pbp5 gene
15370 25426 12.04 1.1E+00 BEBG0184.1 EST_HUMAN 16380 25440 1.29 1.1E+00 AI138682.1 EST_HUMAN 16283 28444 1.33 1.1E+00 Z7238.1 NT 16296 25458 7.53 1.1E+00 AI161582 NT 16206 26748 7.53 1.1E+00 AI161582 NT 16508 27739 1.05 1.1E+00 AI161562 NT 17504 27781 4.39 1.1E+00 AI161652 NT 17584 27815 2.00 1.1E+00 AI161652 NT 17584 27816 2.00 1.1E+00 AI161652 NT 17584 27816 2.65 1.1E+00 AI162621 NT 18323 28881 4.41 1.1E+00 AF08842.1 NT 18329 28881 4.41 1.1E+00 AF08842.1 NT 18329 28881 4.41 1.1E+00 AF08898.1	5249			1.57	1.1E+00	6978530	뉟	Rettus norvegicus Aquaporin 4 (Aqp4), mRNA
16280 25440 1.29 1.1E+00 Al138582.1 EST HUMAN 16283 26444 1.93 1.1E+00 Z7238.1 NT 16283 26445 1.93 1.1E+00 Z7238.1 NT 16286 2646 7.83 1.1E+00 AL161588.2 NT 17696 27731 1.05 1.1E+00 AL161588.2 NT 17694 27815 2.08 1.1E+00 AL161688.2 NT 17694 27816 2.08 1.1E+00 AL161688.2 NT 17694 27816 2.08 1.1E+00 AL161618.2 NT 17694 2781 1.1E+00 AF04286.1 NT 17834 28182 4.41 1.1E+00 AF01286.1 NT 18329 4.41 1.1E+00 AF01286.1 NT NT 18939 4.41 1.1E+00 AF01286.1 NT NT 18056 28310 2.13 1.1E+00 AF01286.1 NT <td>5449</td> <td></td> <td></td> <td>12.04</td> <td>1.1E+00</td> <td>BE960184.1</td> <td>EST HUMAN</td> <td>601652776R1 NIH MGC 58 Hamo sapiens cDNA clone IMAGF:3825835 3</td>	5449			12.04	1.1E+00	BE960184.1	EST HUMAN	601652776R1 NIH MGC 58 Hamo sapiens cDNA clone IMAGF:3825835 3
16283 26444 1.93 1.1E+00 Z72338.1 NT 16283 26445 1.83 1.1E+00 Z72338.1 NT 16286 2646 7.63 1.1E+00 AL761688.2 NT 16008 26799 3.22 1.1E+00 AB02315.1 NT 17564 27731 1.65 1.1E+00 AL61616.2 NT 17564 27781 2.06 1.1E+00 AL61616.2 NT 17694 27731 1.1E+00 AL616862.1 NT 17694 27781 1.1E+00 AL612862.1 NT 17834 28182 4.41 1.1E+00 AF012862.1 NT 18329 4.41 1.1E+00 AF012862.1 NT NT 18551 28581 4.41 1.1E+00 AF012862.1 NT 18559 4.41 1.1E+00 AF012862.1 NT 18550 28510 2.13 1.1E+00 AF012862.1 NT 10550 <t< td=""><td>6460</td><td></td><td></td><td>1.29</td><td>1.1E+00</td><td>Al138582.1</td><td>EST HUMAN</td><td>qd85c03.x1 Soares, testis, NHT Homo sapiens, cDNA clone, IMAGE-1736260.3</td></t<>	6460			1.29	1.1E+00	Al138582.1	EST HUMAN	qd85c03.x1 Soares, testis, NHT Homo sapiens, cDNA clone, IMAGE-1736260.3
16283 26445 1.93 1.1E+00 Z72338.1 NT 16296 26458 7.63 1.1E+00 AL161588.2 NT 16608 2773 1.65 1.1E+00 AL161516.2 NT 17608 27731 1.65 1.1E+00 AL161516.2 NT 1764 27815 20.08 1.1E+00 AL161516.2 NT 17634 27815 20.08 1.1E+00 AL161516.2 NT 17634 27815 20.08 1.1E+00 AL16156.2 NT 17634 27815 2.66 1.1E+00 AL16156.2 NT 1826 2781 1.1E+00 AL16156.2 NT 1832 28581 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.41 1.1E+00 AF012862.1 NT 18551 28881 4.41 1.1E+00 AF012862.1 NT 18550 28881 4.41	6422			1.93	1.1E+00	Z72338.1	Ę	Herpes simplex virus type 1 (strain KOS) UL41 gene
16296 28468 7.63 1.1E+00 AL161588.2 NT 16908 26799 3.22 1.1E+00 BF683996.1 EST_HUMAN 17608 27781 4.39 1.1E+00 AL161516.2 NT 17694 27815 20.08 1.1E+00 AL161516.2 NT 17834 28182 2.65 1.1E+00 AF068942.1 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18324 28582 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.73 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012862.1 NT 18057 28835 4.73 1.1E+00 AF012862.1 NT 18059 4.73 1.1E+00 AF012862.1 NT 19050 25310 2.13 1.1E+00 AF018099.1 NT 10077 3.49 1.1E+00 AF018099.1 NT 10089 19804 1.14 1.0E+00 AF01809.1 NT 10595 20413 4.51	6422			1.93	1.1E+00		ΝŢ	Herpes simplex virus type 1 (strain KOS) UL41 gene
16608 26799 3.22 1.1E+00 BF683996.1 EST HUMAN 17508 27733 1.65 1.1E+00 AL053151.1 NT 17594 27815 20.08 1.1E+00 AL161516.2 NT 17834 28182 2.65 1.1E+00 AL068942.1 NT 13426 28581 4.41 1.1E+00 AF012862.1 NT 18323 28582 4.41 1.1E+00 AF012862.1 NT 18959 4.73 1.1E+00 AF012862.1 NT 18959 4.73 1.1E+00 AF012862.1 NT 18950 4.73 1.1E+00 AF012862.1 NT 18950 4.73 1.1E+00 AF012862.1 NT 18950 4.73 1.1E+00 AF012862.1 NT 19050 2.63 1.1E+00 AF012862.1 NT 10077 3.49 1.1E+00 AF012862.1 NT 10592 2.0308 1.14 1.0E+00 AF	6435			7.63	1.1E+00		E	Arabidopsis thaliana DNA chromosome 4. contid fragment No. 84
17568 27733 1.65 1.1E+00 AB023151.1 NT 17564 27791 4.39 1.1E+00 AL161515.2 NT 17594 27815 20.08 1.1E+00 6754021 NT 17834 28182 2.65 1.1E+00 AF068942.1 NT 13426 5.73 1.1E+00 AF012862.1 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.41 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012862.1 NT 19057 3.49 1.0E+00 AF234169.1 NT 10689 1.9904 1.14 1.0E+00 AF234169.1 NT 1077 3.49 1.0E+00 AB021684.1 NT 10592 20308 1.14 1.0E+00 AB021684.1 NT 10592 20308 1.14 1.0E+00 AB021684.1 NT 10592	6728			3.22	1.1E+00		EST HUMAN	602082582F1 NIH MGC 81 Homo satriens CDNA clone IMAGE-4246829 E1
17565 27701 4.39 1.1E+00 AL161516.2 NT 17594 27815 20.08 1.1E+00 6754021 NT 17984 28182 2.65 1.1E+00 4768942.1 NT 13426 5.73 1.1E+00 AF012862.1 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.41 1.1E+00 AF012862.1 NT 18553 28335 4.41 1.1E+00 AF012862.1 NT 18550 28335 4.41 1.1E+00 AF012862.1 NT 18599 4 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012862.1 NT 18057 4.73 1.1E+00 AF012862.1 NT 18058 4.41 1.1E+00 AF012862.1 NT 18059 4.41 1.1E+00 AF012862.1 NT 1058 25310 1.14 <	7658			1.65	1.1E+00		N	Homo saplens mRNA for KIAA0934 protein, partial cds
17594 27815 20.08 1.1E+00 6754021 NT 17984 28182 2.65 1.1E+00 11067364 NT 13426 5.73 1.1E+00 AF068942.1 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18324 4.41 1.1E+00 AF012862.1 NT 18325 28582 4.41 1.1E+00 AF012862.1 NT 18329 4.41 1.1E+00 AF012862.1 NT NT 18550 25310 2.13 1.1E+00 AF012862.1 NT 18599 4 1.1E+00 AF21689.1 NT 18056 25310 2.13 1.1E+00 AF21689.1 NT 10077 3.49 1.0E+00 AF234169.1 NT 1055 20413 1.14 1.0E+00 AL325169.1 NT 1055 20413 1.0E+00 AL163218.2 NT NT 1059 2043 1.0E+00	7716			4.39	1.1E+00	AL161515.2	Z	Arabidopsis thaliana DNA chromosome 4, contio framment No. 27
17834 28182 2.65 1.1E+00 T1067364 NT 1784 3.41 1.1E+00 AF068942.1 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18323 28582 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.73 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012862.1 NT 18057 3.49 1.1E+00 AF21689.1 NT 10089 19904 1.14 1.0E+00 AF234169.1 NT 1055 20308 1.14 1.0E+00 AB021684.1 NT 1055 20413 4.51 1.0E+00 AL163218.2 NT 10597 2041 1.0E+00 AL163218.2 NT NT 10597 0.95 1.0E+00 AR251660.1 NT NT 1	7744	17594		20.08	1.1E+00	6754021	Z	Mus musculus quanine nucleotide binding protein (G protein) gamma 3 entrimit (Gr. 2) Data
17981 3.41 1.1E+00 AF068942.1 NT 13426 5.73 1.1E+00 B922973 NT 18323 28581 4.41 1.1E+00 AF012862.1 NT 18551 28632 4.41 1.1E+00 AF012862.1 NT 18553 28535 4.73 1.1E+00 AF012862.1 NT 18059 4 1.1E+00 AF012862.1 NT 19056 25310 2.13 1.1E+00 AF012862.1 NT 19059 25310 2.13 1.1E+00 AF012862.1 NT 10077 3.49 1.1E+00 AF21669.1 NT NT 10089 19904 1.14 1.0E+00 AZ34169.1 NT 1055 20413 4.51 1.0E+00 AL163218.2 NT 10597 2041 1.0E+00 AZ51660.1 NT NT 10597 0.95 1.0E+00 AZ51660.1 NT NT 11623 21492 <td>8043</td> <td>17934</td> <td></td> <td>2.65</td> <td>1.1E+00</td> <td>11067364</td> <td>M</td> <td>Homo saplens KIAA0526 gene product (KIAA0828) mPnia</td>	8043	17934		2.65	1.1E+00	11067364	M	Homo saplens KIAA0526 gene product (KIAA0828) mPnia
1326 5.71 1.1E+00 AF012862.1 NI 18323 28581 4.41 1.1E+00 AF012862.1 NT 18323 28582 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.73 1.1E+00 AF012862.1 NT 18599 4 1.1E+00 AF012862.1 NT 18056 26310 2.13 1.1E+00 AF012866.1 NT 19077 3.49 1.1E+00 AF241689.1 NT NT 10077 3.49 1.0E+00 AF24168.1 NT NT 10089 19904 1.14 1.0E+00 AB02168.1 NT NT 10587 20413 4.51 1.0E+00 AB02168.1 NT NT 10597 0.95 1.0E+00 AB006531.1 NT NT NT 11623 27492 1.0E+00 AB0555 SWISSPROT NT NT 12312 22209 1.4 1.0E+00	000			77.0	74.7		!	Klebsormidium fluitans cytochrome c oxidase subunit 2 (cox2) gene, mitochondrial gene encoding
18323 28581 4.41 1.1E+00 AF012862.1 NT 18323 28582 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.73 1.1E+00 AF012862.1 NT 1859 4 1.1E+00 AF012862.1 NT 1859 4 1.1E+00 AF012862.1 NT 18056 25310 2.13 1.1E+00 AF012868.1 NT 10077 3.49 1.0E+00 AF234163.1 NT 10562 20308 1.14 1.0E+00 AB021684.1 NT 10552 20413 4.51 1.0E+00 AR125884.1 NT 11623 21492 1.32 1.0E+00 AB006531.1 NT 12692 1.32 1.0E+00 AB006531.1 NT 12712 22209 1.4 1.0E+00 AB006531.1 NT 12712 22209 1.4 1.0E+00 AB006531.1 NT 12712 22209 1.4 1.0E+00 AB006531.1 NT	8447			0.41	1.15+00		ĮN.	mitochondrial protein, partial cds
18323 28581 4.41 1.1E+00 AF012862.1 NT 18523 28682 4.41 1.1E+00 AF012862.1 NT 1859 4.73 1.1E+00 AF012862.1 NT 1899 4.73 1.1E+00 AF012862.1 NT 18950 2.13 1.1E+00 AF012862.1 NT 19056 2.6310 2.13 1.1E+00 AF246696.1 NT 10077 3.49 1.0E+00 AF234169.1 NT NT 10089 19904 1.14 1.0E+00 AB3084.1 NT 10556 20308 1.14 1.0E+00 AB21660.1 NT 10597 0.95 1.0E+00 AB132166.1 NT NT 11623 21492 1.32 1.0E+00 AB006531.1 NT 12312 22209 1.4 1.0E+00 PA8355 SWISSPROT				277	1.15+00	087780	2	nomb sapiens hypothetical protein FLJ11280 (FLJ11280), mRNA
18323 28582 4.41 1.1E+00 AF012862.1 NT 18551 28835 4.73 1.1E+00 AF012862.1 EST_HUMAN 18999 4 1.1E+00 AF01686.1 SWISSPROT 19056 26310 2.13 1.1E+00 AF216696.1 NT 10077 3.49 1.0E+00 AF234169.1 NT 10089 19904 1.14 1.0E+00 D23808.1 NT 10562 20308 1.14 1.0E+00 AB021684.1 NT 10597 2.16 1.0E+00 AB021684.1 NT 10597 2.0413 4.51 1.0E+00 AL15318.2 NT 10597 0.95 1.0E+00 AL153884.1 NT 11623 21492 1.3E+00 AR163.18.2 NT 11623 22209 1.4 1.0E+00 AR165.5 SWISSPROT 12312 22209 1.4 1.0E+00 P48355 SWISSPROT	8450	- 1	28581	4.41	1.1E+00,	<u>.</u>	뒫	Petroselinum crispum cytosolic glucose-6-phosphate dehydrogenase 1 (cG6PDH1) mRNA, complete cds
18651 28835 4.73 1.1E+00 AI809699.1 EST_HUMAN 18999 4 1.1E+00 PO7866 SWISSPROT 19670 2.13 1.1E+00 AF241696.1 NT 10077 3.49 1.0E+00 AF234169.1 NT 10089 18904 1.14 1.0E+00 D83425.1 NT 10582 2.0308 1.14 1.0E+00 AB251660.1 NT 10597 2.0413 4.51 1.0E+00 AL51660.1 NT 10597 0.95 1.0E+00 AF125984.1 NT 12692 1.04 1.0E+00 AF125984.1 NT 11623 21492 1.0E+00 AF006531.1 NT 12312 22209 1.4 1.0E+00 P48355 SWISSPROT 12312 22209 1.4 1.0E+00 P48355 SWISSPROT	8450	18323	28582	4.41	1.1E+00		¥	Petroselinum crispum cytosolic plurose & phosphata dehodrose 4 20000 12 200000 12 200000 12 20000 12 20000 12 20000 12 20000 12 20000 12 20000 12 200000 12 200000 12 20000 12
18999 4 1.1E+00 Po7866 SWISSPROT LOW TEMPERATURE ESSENTIAL PROTEIN 19056 26310 2.13 1.1E+00 AF23469.1 NT Taenla sollum Immunogenic protein Ts76 mRNA, para NPA para NPA 10077 3.49 1.0E+00 L23808.1 NT Dictyostelium discoldeum isopententy pyrophosphate complete cds 10089 19904 1.14 1.0E+00 L23808.1 NT Cavia cobaya mRNA for serine/threoine kinase, complete cds 10552 20308 1.14 1.0E+00 AB021684.1 NT Marchandia polymorpha genes for 26S rRNA, 5S rRN 10597 20413 4.51 1.0E+00 AB021684.1 NT Marchandia polymorpha genes for 26S rRNA, 5S rRN 10597 20413 4.51 1.0E+00 AL251660.1 NT Homo sapiens chromosome 21 segment HS21C018 10597 0.95 1.0E+00 AF125984.1 NT Acedes aegypti muclin-like profein MUC1 mRNA, complete cds 11623 21492 1.0E+00 AB006531.1 NT Y.carteri Agal-CAM mRNA 12312 22208 1.4 1.0E+00	8662	18551	28835	4.73	1.1E+00	-	EST HUMAN	w/76e/1.x/ Soares NFL T GBC S1 Homo saniene chNA close (NACE: 2264540 2)
19056 26310 2.13 1.1E+00 AF216896.1 NT Taenla sollum Immunogenic protein Ts76 mRNA, par 1.0E+00 AF234169.1 19670 1.54 1.1E+00 AF234169.1 NT Dictyostelium discoldeum isopenterny pyrophosphate cds 10077 3.49 1.0E+00 UZ3808.1 NT Xenopus laevis rhodopsin gene, complete cds 10089 19904 1.14 1.0E+00 D88425.1 NT Cavia cobaya mRNA for serinethreoine kinase, complete cds 10550 2.06 1.0E+00 AB021684.1 NT Marchania polymorpha genes for 26S rRNA, 5S rRNA, 105 republicant transcription 10597 2.06 1.0E+00 AL251660.1 NT Homo sepiens chromosome 21 segment HS21C018 10597 0.95 1.0E+00 AL163218.2 NT Homo sepiens chromosome 21 segment HS21C018 11629 1.0E+00 AL163218.2 NT NT Acetes aegypti mucin-like protein MUC1 mRNA, company of the compa	9300	18999		4	1.1E+00		SWISSPROT	LOW TEMPERATURE ESSENTIAL PROTEIN
19570 1.54 1.1E+00 AF234169.1 NT Dictyostelium discoldeum isopenterny pyrophosphate 10077 3.49 1.0E+00 U23808.1 NT Xenopus leavis rhodopsin gene, complete cds 10089 19904 1.14 1.0E+00 D88425.1 NT Cavia cobaya mRNA for serine/threoine kinase, complete cds 10358 2.16 1.0E+00 AB021684.1 NT Cavia cobaya mRNA for serine/threoine kinase, complete cds 10502 20308 1.14 1.0E+00 AB021684.1 NT Marchantia polymorpha genes for 26S rRNA, 5S rRN 10597 2.06 1.0E+00 AL163218.2 NT Homo saplens chromosome 21 segment HS21C018 10597 0.95 1.0E+00 AL163218.2 NT Acdes aegypti mucin-like protein MUC1 mRNA, complete cds 11629 1.0E+00 AF125984.1 NT V.carterl Algal-CAM mRNA 11623 1.0E+00 AR006531.1 NT V.carterl Algal-CAM mRNA 12312 22208 1.4 1.0E+00 P48356 SWISSPROT DNA GYRASE SUBUNIT B 12312 22209 1.4 1.0E+00 P48356 SWISSPROT DNA GYRASE SUBUNIT B	9402	19056	25310	2.13	1.1E+00		M	Taenia solium immunogenic protein Ts76 mRNA, partial pris
10077 3.49 1.0E+00 UZ3808.1 NT Xenopus leavis rhodopsin gene, complete cds 10089 1.9904 1.14 1.0E+00 D88425.1 NT Cavia cobaya mRNA for serine/threoine kinase, complete cds 10358 2.16 1.0E+00 AB021684.1 NT Marchantia polymorpha genes for 26S rRNA, 5S rRNA, 105	9523	19570		1.54	1.1E+00/	.1	Z	Dictyostelium discoldeum isopentenyl pyrophosphate isomerase (Dipl.) mRNA_complete_cds
10889 19904 1.14 1.0E+00 D88425.1 NT Cavia cobaya mRNA for serine/threoine kinase, comp 10358 2.16 1.0E+00 AB021684.1 NT Marchantia polymorpha genes for 26S rRNA, 5S rRNA, 5S rRNA, 105 rRNA, 5S rR	35	100/1		3.49	1.0E+00 (ᅜ	Xenopus laevis rhodopsin gene, complete cds
10358 2.16 1.0E+00 AB021684.1 NT Marchantia polymorpha genes for 26S rRNA, 5S rRNA, 105 rRNA, 5S rRNA, 5D rRNA	108	10089	19904	1.14	1.0E+001		M	Cavia cobaya mRNA for serinethreoine kinase, complete cds
10502 20308 1.14 1.0E+00 AJ251660.1 NT Girardia tignina mRNA for homeodomain transcription 10595 20413 4.51 1.0E+00 AL163218.2 NT Homo sapiens chromosome 21 segment HS21C018 10597 0.95 1.0E+00 AF125984.1 NT Aedes aegypti mucin-like protein MUC1 mRNA, companion 12692 1.04 1.0E+00 AR125984.1 NT V.carteri Algel-CAM mRNA 11623 21492 1.32 1.0E+00 AR006531.1 NT Plautia stali intestine virus RNA for nonstructural SWISSPROT 12312 22209 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B	412	10358		2.16	1.0E+00 /		F	Marchantia polymorpha genes for 26S rRNA, 5S rRNA, 18S rRNA, 5 8S rRNA and 28S rRNA
10595 20413 4.51 1.0E+00 AL163218.2 NT Homo sapiens chromosome 21 segment HS21C018 10597 0.95 1.0E+00 AF125984.1 NT Aedes aegypti mucin-like protein MUC1 mRNA, compared to the compared t	295	10502	20308	1.14	1.0E+00 /		Į.	Girardia tignina mRNA for homeodomain transcription factor (so gene)
10597 0.95 · 1.0E+00 AF125984.1 NT Aedes aegypti mucin-like protein MUC1 mRNA, compared by the com	8	10595	20413	4.51	1.0E+00/		N N	Homo sapiens dromosome 21 segment HS21C018
12692 1.04 1.0E+00 X80416.1 NT V.carteri Algal-CAM mRNA 11623 21492 1.32 1.0E+00 AB006531.1 NT Plautia stali intestine virus RNA for nonstructural 12312 22208 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B 12312 22209 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B	88	10597		0.95	1.0E+00		F	Aedes aegypti mucin-like protein MUC1 mRNA, complete cds
11623 21492 1.32 1.0E+00 AB006531.1 NT Plautia stali intestine virus RNA for nonstructural 12312 22209 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B 12312 22209 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B	1364	12692		1.04	1.0E+00		F	V.carteri Algal-CAM mRNA
12312 22208 1.4 1.0E+00 P48356 SWISSPROT DNA GYRASE SUBUNIT B 12312 22209 1.4 1.0E+00 P48355 SWISSPROT DNA GYRASE SUBUNIT B	1722	11623	21492	1.32	1.0E+00 /	<u>.</u>		
12312 22209 1.4 1.0E+00 P48355 SWISSPROT	2435	12312	22208	4.1	1.0E+00 F		ISSPROT	
	2435	12312	22209	1.4	1.0E+00 F		Τ	NA GYRASE SUBUNIT B

Page 18 of 413 Table 4 Single Exon Probes Expressed in

						gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	. Top Hit Descriptor
2651	12518	22408	1.09		1.0E+00 AF131205.1	ħ	Mus musculus Serf1 protein (Serf1), survival of motor neuron protein (Smn), neuronal apoptosis Inhibitory protein-rs3 (Naip-rs3) genes commens etc.
2846	12774	22561	3.48		1.0E+00 P24008	SWISSPROT	3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE 1 (STEROID 5-AI PHA-REDII ICTASE 1) /CB TYDE 1)
2846		22562	3.48		1.0E+00 P24008	SWISSPROT	3-OXO-5-ALPHA-STEROID 4-DEHYDROGENASE 1 (STEROID & DEDICTASE 3) (SD. CED. CO. C.
2938	12865		0.99		014226	SWISSPROT	HYPOTHETICAL 67.9 KD PROTEIN C6F12.08C IN CHROMOSOME I
3162	13087	22891	1.17		1.0E+00 AA628453.1	EST HUMAN	ef28g08.s1 Scares_total_fetus_Nb2HF8_9w Homo sapiens cDNA close IMAGE:1032830 3' similar to WP:C42D8.3 CE04204 :contains element MFR22 MFR22 remetitive element
3327			0.81			N-	Rettus norvegicus neuromedin U precursor (Nml.) gene exems 5 and 6
3548	10077		1.15		1.0E+00 U23808.1	LN.	Xenopus laevis rhodopsin dene, complete cds
3627	13541	23328	1.44		-	NT	Agaricus bisporus mRNA for tyrosinase
3978	13885	23660	0.86		1.0E+00 AF223391.1	Į	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively soliced
4178	14078		67.0		922245	Z	Homo sabiens hypothetical profein FI. (10139 (FI. (10130) mRNA
4815			0.88		1.0E+00 U75741.1	NT	Taenia ovis 45W antigen (ToW4) gene complete cds
4951	14828		0.88	1.0E+00		N.	Rattus norvegicus mRNA for N-acerdolicoseminyfransferase III complete ada
5139	15006	24777	0.87	1.0E+00	1.0E+00 AJ223978.1	N N	Bacillus subtilis 42.7kB DNA fragment from wat to wind
5228	15152	24919	2.49	1.0E+00	1.0E+00 Z97022.1	NT	Hordeum vulgare gene encoding cysteine proteinase
5568	15484	25557	4.31	1.0E+00	1.0E+00 AF248054.1	Ę	Bos faurus micromoler calcium activated neutral protease 1 (CAPN1) gene avone 11.20 and anation
5568	15484	25558	4.31	1.0E+00	1.0E+00 AF248054.1	Į.	Bos faurus micromolar calcium antiusted neutral protesses 4 (CAbbis)
5719	15626	25729	4.82	1.0E+00 P04501		SWISSPROT	FIBER PROTEIN
5720	15627	25730	1.39	1.0E+00	782.1	EST HUMAN	ULH-BI3-alx-d-09-0-U.S.1 NCI CGAP Sub5 Home seniens contactor and open 1MA CE-20septed 2
5908	15814	25939	2.21	1.0E+00		N F	Mus musculus subtilisin-like serine protesse PC (PC7) gene exent 1 to partial sub-
6417	16279		8.43	1.0E+00 P20273		SWISSPROT	B-CELL RECEPTOR CD22 PRECURSOR (LEU-14) (B-LYMPHOCYTE CELL ADHESION MOLECULE) (BL-CAM)
6537	16395	26574	1.34	1.0E+00	31.1	Z	Homo sapiens endothelin-converting enzyme 2 (FCF2) mRNA complete and
6546	16404	26583	5.99	1.0E+00	1.0E+00 AA775191.1	T HUMAN	ac79b08.s1 Stratagene lung (#937210) Homo sanions CNNA clane IMA CE-SER704.91
6841	16521	28713	1.71	1.0E+00	1.0E+00 BE868267.1	EST HUMAN	601443950F1 NIH MGC 65 Homo saniens cDNA clone IMA GE 38 Agring ET
6641	16521	26714	17.1	1.0E+00	-		601443950F1 NIH MGC 65 Homo sepiens cDNA clone IMAGE 3848905
6734	14828		1.38	1.0E+00	1.0E+00 D10852.1	Г	Rattus novegicus mRNA for N-acetylglucosaminytransferase III. complete cds
			,				

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6861	16740	26932	2.7	1.0E+00 Q02207	Q02207	SWISSPROT	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA- OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE; D-3-HYDROXYACYL COA DEHYDROGENASE]
6861	16740	26933	2.7	1.0E+00 Q02207	Q02207	SWISSPROT	PEROXISOMAL HYDRATASE-DEHYDROGENASE-EPIMERASE (HDE) (MULTIFUNCTIONAL BETA- OXIDATION PROTEIN) (MFP) [INCLUDES: 2-ENOYL-COA HYDRATASE; D-3-HYDROXYACYL COA DEHYDROGENASE]
6967	19466		2.01	1.0E+00	1.0E+00 BE147331.1	EST_HUMAN	RC1-HT0229-181099-011-e06 HT0229 Homo sapiens cDNA
7064	16941	27133	1.9		1.0E+00 M38427.1	Į.	Human immunodeficiency virus type 1 (HIV-1), Isolate SF33,
7339	17207		1.76		1.0E+00 BE907592.1	EST_HUMAN	601497581F1 NIH_MGC_70 Hamo sapiens oDNA clone IMAGE:3899421 5'
7460	17320		1.28		6753429 NT	NT	Mus musculus chloride channel calcium activated 1 (Cica1), mRNA
7460	17320		1.28		6753429	TN	Mus musculus chloride channel calcium activated 1 (Clca1), mRNA
7544			. 2.03		1.0E+00 AV689554.1	EST_HUMAN	AV689554 GKC Homo sapiens cDNA clone GKCCYA11 5'
7546		27609	1.2		1.0E+00 U44952.1	NT	Xenopus laevis zona pellucida C giycoprotein precursor (XIZPC) mRNA, complete cds
7546	17397	27610	1.2		1.0E+00 U44952.1	NT	Xenopus laevis zona pellucida C glycoprotein precursor (XZPC) mRNA, complete cds
7916	17766	28005	2.83		1.0E+00 AV758825.1	EST_HUMAN	AV758825 BM Homo sapiens cDNA clone BMFAW C04 5
7985	17835		17.08		1.0E+00 AA004982,1	EST_HUMAN	zh94a02.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428906 5'
7985	17835	28076	17.08		1.0E+00 AA004982.1	EST_HUMAN	zh94a02.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:428906 5'
9193	18928		2.05	1.0E+00 P15306	P15306	SWISSPROT	THROMBOMODULIN PRECURSOR (FETOMODULIN) (TM)
9513	19126		1.51	1.0E+00	1.0E+00 AW976184.1	EST_HUMAN	EST388293 MAGE resequences, MAGN Homo saplens cDNA
9869	19350			1.0E+00	1.0E+00 AB040950.1	NT	Homo sapiens mRNA for KIAA1517 protein, partial cds
1553	11458		0.84	9.9E-01	9.9E-01 AF245455.1	NT	Drosophila melanogaster regulator of G-protein signalling LOCO III mRNA, complete cds
1553		21316		9.9E-01	9.9E-01 AF245455.1	NT	Drosophila metanogaster regulator of G-protein signalling LOCO III mRNA, complete cds
2598					9.9E-01 AL163302.2	NT	Homo sapiens chromosome 21 segment HS21C102
3553			1.18		9.9E-01 AF174585.1	NT	Apple mosaic virus RNA 2 putative polymerase gene, complete cds
5461	15381	25441	9.22		9.9E-01 P49657	SWISSPROT	SERINE/THREONINE PROTEIN KINASE MINIBRAIN
7336	17204		1.38		9.9E-01 U65667.1	NT	Lycopersicon esculentum putative Mi1 copy 1 nematode-resistance gene
7510	17298		2.43		9.9E-01 Q28642	SWISSPROT	B2 BRADYKININ RECEPTOR (BK-2 RECEPTOR)
8097	17988	28237	2.92		9.9E-01 AJ005029.1	N	Danio rento mRNA for Eph-like receptor tyrosine kinase rtk8
512	10454	20265	2.32	9.8E-01 P22567	P22567	SWISSPROT	AMINO-ACID ACETYLTRANSFERASE (N-ACETYLGLUTAMATE SYNTHASE) (AGS) (NAGS)
3732	13644		0.82		9.8E-01 BE957439.2	EST HUMAN	601653583R2 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838461 3'
3732	13644	23430	0.82	9.8E-01	9.8E-01 BE957439.2	EST_HUMAN	601653583R2 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838461 3'
6272	16137	26292	4.61	9.8E-01	9.8E-01 AJ302158.1	LV.	Enterobacteriaceae sp. JM983 partial groES gene for GroES-like protein and partial groEL gene for GroEL- like protein, isolate JM983

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Table 4

		ب	T	7	ĵć	T	o, o	1		7	1		7		\neg	7	Ţ	\exists		T	20		٦		1	7	T	T	T
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Enterobacteriaceae sp. JM983 partial groES gene for GroES-like protein and partial groEL gene for GroEL- like protein, isolate JM983	601110258F1 NIH MGC 16 Homo saniens cDNA clone IMAGE 3350750 5	601110258F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350750 5	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM adramatic dependent protein comments in COMM (CDM), adramatic dependent protein comments in COMM (CDM).	we62e04x1 Sogres thymus NHETh Homo saniens CONA close IMAGE:2245501 81	Drosophila melanogaster sodium channel protein (para) gene, exons 9,10,11,12 and optional segments b, c, d and e. partial cds	Triticum aestivum stribe nust resistance profeir V40 (V40)	Salmonella tunhimitrim adanine mathulemeternen (100 p. 100) gene, complete cos	UI-H-BI4-aci-e-07-0-UI s1 NCI CGAP Subs Homo sarians ONA Also Changes (188)	Botrvis cinerea strain T4 cDNA library inder conditions of alternatives.	Bromus inemis putative cytosofic phosphorthrom the Common DNA	Bromus hermis pulative cutosofic phosphoding from 4 - 0 1/4	PM2-UM0053-240300-005-712 IMM0753 Home continue DNA	Homo segiens KIAA0014 gene product (VIAA004)	Parvovins 819 DNA nation C denome modifier 2448 2004	Parvovirus B19 DNA batient C denome preition 24/8 2004	P. falcharum complete name man of nastidulity DNA (ID. A)	AV752605 NPD Homo septembly Clare NPDRACOR #	AV752605 NPD Homo sapiens cDNA clone NPDBAG06 5	Sphyma tiburo NADH dehydrogenase subunit 2 (NADH2) gene, mitochondrial gene encoding mitochondrial professionarial case.	601675639F1 NIH MGC 21 Homo cariant aDNA alexa NA ACT COSTA 22 =	601875639E1 NIH MGC 21 Home continue appears of the continue o	RC1-CT0295-241199-011-00-21 From September CDNA done IMAGE:3958473 5	Bartonella clarridoniae RNA nolumerase bete submitte (2000)	Pimpinella brachusana zinc finner protein (7504) mDNA	601466703F1 NIH MGC 67 Homb seniens cDNA close MAAGE 3960020 E	Homo saptens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR), mRNA	Homo saplens phylanoyl-CoA hydroxylase (PHYH) gene, exon 5
gle Exon Pro	Top Hit Database Source	F	EST HUMAN	EST_HUMAN	. E	EST HUMAN		Z	LN	EST HUMAN	<u> </u>	¥	F	EST HUMAN	N-	Z	Į.	PA PA	EST HUMAN	EST HUMAN	₩	EST HUMAN	EST HIMAN	EST HUMAN	Ϊ́	TN.	EST HUMAN	5	LN I
Sin	Top Hit Acession No.	9.8E-01 AJ302158.1	9.8E-01 BE258705.1	9.8E-01 BE258705.1	9.8E-01 U52111.2	9.7E-01 Al660384.1	J26716.1	9.7E-01 AF149112.1		2		-			7662375 NT				9.6E-01 AV752605.1			7.	Γ		Γ			419857	F242382.1
	Most Similar (Top) Hit BLAST E Vafue	9.8E-01	9.8E-01	9.8E-01	9.8E-01	9.7E-01	9.7E-01 U26716.1	9.7E-01	9.7E-01 M90544.1	9.7E-01	9.7E-01 AL114281	9.6E-01	9.6E-01	9.6E-01 AW 79967	9.6E-01	9.6E-01 Z70556.1	9.6E-01 Z70556.1	9.6E-01 X95275:1	9.6E-01 A	9.6E-01	9.6E-01 U91423.1	9.5E-01 E	9.5E-01 B	9.5E-01 A	9.4E-01	9.4E-01	9.4E-01 BE781251	9.4E-01	9.3E-01 AF242382
	Expression Signal	4.61	4.43	4.43	1.62	1.01	2.37	1.86	1.74	4.52	1.39	8.8	6.8	1.3	0.92	3.46	3.46	1.37	4.15	4.15	1.52	1.6	1.6	1.17	3.37	1.67	1.64	1.43	1:11
	ORF SEQ ID NO:	26293	28487	28488			26266	27023	27025			24016	24017	24036	24729	25498	25499		28912	28913	24989	23410	23411	27336					
	Exon SEQ ID NO:	16137	18239	18239	19061	14974	16114	16830	16832	18382	19419	14234	14234	14251	14953	15435	15435	16769	18622	18622	19646	13627	13627	17143	13090	13106	19029	19564	11601
	Probe SEQ ID NO:	6272	8362	8362	9408	5106	6248	6952	6954	8510	9926	4337	4337	4355	5083	5517	5517	0880	8808	8808	9709	3715	3715	7266	3165	3181	9354	9708	1700

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Single Exon Probes Expressed in Heart	Most Similar (Top) Hit Acession Database Source Source	1.13 9.3E-01 BE071172.1 EST HUMAN IRCE-BT0503-27/199-011-R01 RT0503 Home conjunt about	<u> </u>	K	F F	9.3E-01 AF213884.1 NT	9.3E-01 L36189.1 NT	HUMAN	1 NT	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B); melanoma antigen family A3 (MAGEA2B), caltractin	9.2E-01 BE622702.1 EST HUMAN	BF037586.1 EST HUMAN	N	E	1.73 9.2E-01 BF593251.1 FST HI IMAN POASAO NAPHJI BION INCHE CARROCITATION CONTROLL INCOME CARROCITATION CONTROLL INCOME CARROCITATION CONTROLL INCOME CARROCITATION CONTROLL	9.2E-01 BF132402.1 FST HIMAN	9.2E-01 BF680047.1 EST HUMAN	923056 NT	0.97 9.1E-01 726418.1 EST_HUMAN 'AB200G8R Infant brain, ILINL array of Dr. M. Soares 1NIB Homo saniens cDNA clume 11 AB200G8 Fr	0.97 9.1E-01 756418.1 FST HI IMAN AR200G8R Infant brein 11 NI 11 NI 11 NI 11 NI 12 NI	9.1E-01 U68172.1	9.1E-01 Q61704 SWISSPROT	9.1E-01 AA806623.1	N N	9.1E-01 AF050113.1 NT	661625 NT	9.0E-01 AF099810.1 NT	9.0E-01 AF017729.1 NT	NIT
		9.3E-01 BE071	9.3E-01 M2021	9.3E-01 M2021	9.3E-01 AF075	9.3E-01 AF213	9.3E-01 L36189	9.3E-01 AA847	9.3E-01 AF271;			9.2E-01 BF037	9.2E-01	9.2E-01	9.2E-01 BF5932	9.2E-01 BF1324	9.2E-01 BF6800	9.1E-01	9.1E-01 T26418	9.1E-01 T26418	9.1E-01 U68172	9.1E-01 Q61704	9.1E-01 AA8066	9.1E-01 U72995	9.1E-01 AF0501	9.0E-01	9.0E-01 AF0998	9.0E-01 AF0177	O OF OA POSSO
	Mo. Expression (7 Signal BI	1.13	0.82	0.82	1.54	1.62	3.84	1.88	1.56	1.38	3.04	4.23	1.38	3.63	1.73	1.85	2.01	1.43	0.97	0.97	0.86	2.92	15.99	2.2	30.05		2.37		
}	ORF SEQ ID NO:	22357	23630	23631		25410	25465	26771			22930	25649	27688	27983	28041	29059	29101		22898	22899	23991	25950	26498	26587		22900	23959	24589	
	Exan SEQ ID NO:	12464	13857	13857	15022	15354	15402	16581	19325	19418	13125	15556	17469	17740	17802	18767	18809	11967	13094	13094	14207	15824	16331	16409	19641	13095	14181	14822	48250
	Probe SEQ ID NO:	2594	3949	3949	5155	5434	5482	6701	9822	9954	3201	5643	7618	7890	7952	8960	9006	2077	3169	3169	4310	5919	6472	6551	9445	3170	4282	4945	8288

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Table 4
Single Exon Probes Expressed in Heart

Probe Bonnia Description Top HR (Top) HR (To								
15413 25476 2.08 8.9E-01 AF028198.1 NT 15682 1.32 8.9E-01 AF028198.1 NT 18784 28085 3.47 8.9E-01 AE002186.2 NT 18724 28085 3.28 8.8E-01 AE002186.2 NT 18304 28560 2.98 8.8E-01 D90911.1 NT 14835 24126 3.28 8.8E-01 D90911.1 NT 14836 28560 2.98 8.8E-01 D90911.1 NT 10401 20218 1.54 8.7E-01 AF105983.7 NT 12233 22100 4.64 8.7E-01 AF105983.1 RT 12773 22560 4.64 8.7E-01 AF105983.1 RST HUMAN 18776 29067 4.16 8.7E-01 BF107694.1 EST HUMAN 18776 29068 4.16 8.7E-01 BF107694.1 EST HUMAN 19534 2.76 8.7E-01 BF107694.1 EST HUMAN 10767 29068 4.16 8.7E-01 BF107694.1 EST HUMAN 10767 20618	φ Ö. Ö.	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acesslon No.		Top Hit Descriptor
15692 1.32 8.9E-01 K60986.1 NT 14784 22085 3.47 8.9E-01 AE002944.1 NT 18887 4.74 8.9E-01 AE002186.2 NT 14836 24126 3.28 8.8E-01 C26360 SWISSPROT 14836 22136 1.76 8.8E-01 AE0850 SWISSPROT 19233 22130 1.09 8.7E-01 AF063563.1 NT 12233 22130 4.04 8.7E-01 AF063683.1 EST_HUMAN 12773 22560 4.04 8.7E-01 AF121970.1 NT 14816 2251 8.7E-01 AF121970.1 NT 18776 220067 4.16 8.7E-01 BF107694.1 EST_HUMAN 18634 5.47 8.7E-01 BF107694.1 EST_HUMAN 18634 2.56 8.7E-01 BF107694.1 EST_HUMAN 19534 2.0618 8.7E-01 BF107694.1 EST_HUMAN 10767 2.0618	5494			2.08		AF026198.1	L L	Fugu rubripes neural cell adhesion molecule L1 homolog (L1-CAM) gene, complete cds; putative protein 1 (PUT1) gene, partial cds; mitosis-specific chromosome segregation protein SMC1 homolog (SMC1) gene, complete cds; and calcium channel alone, 1 submittes
18794 29085 3.47 8.9E-01 AE0024841 NT 18987 4.74 8.9E-01 AE002485.2 NT 18987 4.74 8.9E-01 AE002485.2 NT 14836 2.98 8.8E-01 Dossit NT 1972 2.0218 1.76 8.8E-01 Dossit NT 10401 2.0218 1.54 8.7E-01 AF106856 NT 12233 2.2130 1.64 8.7E-01 AF106858 NT 12773 2.2560 4.64 8.7E-01 AF1070 NT 18090 2.8343 5.47 8.7E-01 BF107694 EST HUMAN 18776 2.8067 4.16 8.7E-01 BF107694 EST HUMAN 18634 2.78 8.7E-01 BF107694 EST HUMAN 19534 2.78 8.7E-01 BF107694 EST HUMAN 10409 4.16 8.7E-01 BF107694 EST HUMAN 1057 2.0618 8.7E-01 W69089 EST HUMAN 10409 1.66 8.6E-01 W69089 EST HUMAN 15508<	5786			1.32	8.9E-01	X60986.1	İZ	Rabbit MHC fragment RI A-DF DNA
18987 4.74 8.9E-01 AE002186.2 NT 14836 24126 3.28 8.8E-01 O26360 SWISSPROT 1804 28560 2.98 8.8E-01 D60911.1 NT 19722 1.75 8.8E-01 D60911.1 NT 10401 20218 1.54 8.7E-01 AF106953.2 NT 12233 22130 1.09 8.7E-01 AF106953.2 NT 12773 22560 4.64 8.7E-01 AF121970.1 NT 18090 28343 5.47 8.7E-01 AE004953.1 NT 18776 29067 4.16 8.7E-01 AE004953.1 NT 19634 278 8.7E-01 AE004953.1 NT 10409 28343 5.47 8.7E-01 BF107694.1 EST HUMAN 16534 2.78 8.7E-01 BF107694.1 EST HUMAN 16534 2.78 8.7E-01 BF107694.1 EST HUMAN 16534 2.268 4.16 8.7E-01 BF107694.1 EST HUMAN 16509 2.2573 0.81 8.6E-01 X60567.1 NT	8990			3.47		AE003944.1	N	Xylella fastidiosa, section 90 of 229 of the complete genome
14336 24126 3.28 8.8E-01 O26350 SWISSPROT 18304 28560 2.98 8.8E-01 I28337.1 NT 19722 1.75 8.8E-01 D80911.1 NT 10401 20218 1.54 8.7E-01 AF106963.2 NT 12233 22310 1.09 8.7E-01 AF106963.1 NT 14816 2560 4.64 8.7E-01 AF121970.1 NT 18090 28343 5.47 8.7E-01 AF121970.1 NT 18776 29067 4.16 8.7E-01 BF107694.1 EST HUMAN 18776 29068 4.16 8.7E-01 BF107694.1 EST HUMAN 16534 5.47 8.7E-01 BF107694.1 EST HUMAN 16770 2068 4.16 8.7E-01 BF107694.1 EST HUMAN 10409 1.66 8.6E-01 AV661898.1 NT NT 10409 1.66 8.6E-01 AV661898.1 NT NT	9285			4.74		AE002186.2	TN	Chlamydophila pneumoniae AR39, section 21 of 94 of the complete genome
18304 2866 2.98 8.8E-01 Z28337.1 NT 19722 1.75 8.8E-01 D90971.1 NT 10401 20218 1.54 8.7E-01 AF106963.2 NT 12233 22130 1.09 8.7E-01 AF106963.1 EST_HUMAN 12773 22560 4.84 8.7E-01 AF121970.1 NT 14816 251 8.7E-01 AF121970.1 NT 14816 28343 5.47 8.7E-01 AF121970.1 NT 18776 28067 4.16 8.7E-01 AF107694.1 EST_HUMAN 18776 28068 4.16 8.7E-01 AF107694.1 EST_HUMAN 18776 28068 4.16 8.7E-01 AF107694.1 EST_HUMAN 10409 1.66 8.6E-01 M69089.1 EST_HUMAN 10409 1.66 8.6E-01 M69089.1 EST_HUMAN 12709 2.2012 1.01 8.6E-01 M69089.1 NT 1550	42			3.28		026350	SWISSPROT	PUTATIVE F420-DEPENDENT NADP REDUCTASE
19722 1.76 8.8E-01 D909i1.1 NT 10401 20218 1.54 8.7E-01 AF106953.2 NT 12233 22130 1.09 8.7E-01 AF696863.1 EST_HUMAN 12773 22560 4.64 8.7E-01 AF121970.1 NT 14816 2.551 8.7E-01 AF121970.1 NT 17464 27681 1.45 8.7E-01 AF121970.1 NT 18090 28343 5.47 8.7E-01 AF121970.1 NT 18776 29068 4.16 8.7E-01 BF107694.1 EST_HUMAN 16534 2.78 8.7E-01 BF107694.1 EST_HUMAN 16534 2.78 8.7E-01 BF107694.1 EST_HUMAN 16534 2.2012 1.01 8.6E-01 W69089.1 NT 1767 2.2012 1.01 8.6E-01 W69089.1 NT 15509 2.5266 11.82 8.6E-01 W69089.1 NT 15509	843		28560	2.98		228337.1	N	M.aeruginosa (HUB 5-2-4) DNA from plasmid PMA1
12233 22730 1.09 8.7E-01 AF106953.2 NT 12233 22730 4.64 8.7E-01 AA595863.1 EST_HUMAN 12773 22560 4.64 8.7E-01 AA595863.1 EST_HUMAN 14816 22561 4.45 8.7E-01 AE004963.1 NT 17744 27681 1.45 8.7E-01 BF363970.1 EST_HUMAN 18090 223343 5.47 8.7E-01 BF107694.1 EST_HUMAN 18776 22068 4.16 8.7E-01 BF107694.1 EST_HUMAN 19534 22012 1.01 8.6E-01 AV661898.1 EST_HUMAN 17774 22012 1.01 8.6E-01 AF03210 NT 1509 22580 1.1.82 8.6E-01 AF0324.1 NT 1509 22580 1.1.82 8.6E-01 AF043732.1 NT 1509 22580 1.1.82 8.6E-01 AF043732.1 NT 1509 22580 1.1.82 8.6E-01 AF043732.1 NT 1509 2580 2.14 8.6E-01 AF043732.1 NT 16504 26066 2.14 8.6E-01 AF043732.1 NT 16505 2580 1.52 8.6E-01 AF043732.1 NT 16506 2.14 8.6E-01 AF043732.1 NT 16507 26068 2.14 8.6E-01 AF043732.1 NT 16508 26066 2.14 8.6E-01 AF043732.1 NT 16509 26069 2.14 8.6E-01 AF043732.1 NT 16504 26069 2.75 8.5E-01 AB006799.1 NT 17774 28013 1.36 8.5E-01 AB006799.1 NT	188	_		1.75		D90911.1	LN PA	Synechocystis sp. PCC6803 complete genome 13/27 1578503 1740642
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17774 28014 1.36 8.5E-01 AB006799.1 NT 17774 28014 1.36 8.5E-01 AB006799.1 NT	143	16304	26469	2.75	8.5E-01	_	T HUMAN	SOUGETIONE MIC TO Home serious CONTRACTION OF SECURITION O
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	7	17774	28014	1.36	8.5E-01 A	1		Syanidium caldarlum gene for SigC, complete cds

Page 23 of 413
Table 4
Single Exon Probes Fxnressed in

-		4 /HN/ED43 DNIA	MENA	CANAL					uniata cele	indicate was								similar to contains THR.t1 THR				ction 109 of 148) of the			ilase (FHII) gene, exon 5					iproplymalate (sipha-IPM)		RONIN
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens human immunodeficiency virus Lenhanger Hinding and Linker 1	Rettus norvegicus protein tyrosine phosphafase, non-recentor tyme 5 (Phots) - RNA	Mus musculus mper1 gene for period1, complete cds	Mus musculus NK cell receptor 284 gene, promoter region and partial cde	Human fibroblast growth factor receptor 3 (FGFR3) gene, intron 7	Human fibroblast growth factor receptor 3 (FGFR3) gene intron 7	Pyrococcus abyssi complete genome: segment 5/6	Thermus thermophilus cytochrome c-552 (cyc.A.) and Cyc.B.) genes complete cds	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 18	Nicotiana tabacum mRNA for chloroplast ribosomal protein I 10, complete cde	Streptomyces antibioticus polyketide biosynthetic gene cluster	Canis familiaris MHC DLA Class II DRR nseudomen DRR2	Canis familiaris MHC DLA Class II DRB pseudorene DRR?	Canis familiaris MHC DLA Class II DRB pseudogene DRB2	Canis familiaris MHC DLA Class II DRB pseudogene DRR2	Arabidopsis thaliana DNA chromosome 4. contin fragment No. 40	nn01f12.y5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.t1 THR	rependive element;	Drosophila melanogaster Lis1 homolog mRNA, complete cds	Mus musculus neuro-d4 gene, exons 3 through 12 and partial cds	Methanobacterium thermoautotrophicum from bases 1270510 to 1283409 (section 109 of 148) of the complete genome	Phytophthora infestans mitochandrion, complete genome	Homo sanjens ER A3B common frontis realise discussions	Refilis novening mRNA for RDLO 4 Association of the state	Mis miscialis frontinio (Tra) gene complete cut	IL3-CT0219-161199-031-C08 CT0219 Home serions control	Rattus norvegicus mRNA for RPHO-1 complete cde	CM4-HT0243-081199-037-e01 HT0243 Homo saniens chNA	S.cerevistae MET, LEU4, and POL1 genes encoding MET4 protein, alpha-isoproplymalate (alpha-IPM)	Symmetrics (per usr), and DIVA polymerase alpha (partial) Homo septems (thorseboxin related protein mDNA protein partial)	MCKUSICK-KAUFMAN/BARDET-BIEDL SYNDROMES PUTATIVE CHAPERONIN
le Exon Prob	Top Hit Database Source						N					LN LN					N I		ES - COMPAN	╗	-N	<u>z</u>		F			HUMAN	T	HUMAN			ISSPROT.
Sing	Top Hit Acession No.	11418543 NT	9507008 NT	7.	-			7.		2	1.6						7			8.3E-01 AF098070.1		8.3E-01 AE000903.1	2472		8.2E-01 AB000489.1	Γ	8.2E-01 AW376990.1	Γ			-	
	Most Similar (Top) Hit BLAST E Value	8.5E-01	8.5E-01	8.5E-01 AB030818	8.4E-01	8.4E-01 L78726.1	8.4E-01 L78726.1	8.4E-01 AJ248287	8.3E-01 M93437.1	8.3E-01 AL161506	8.3E-01 AB01087	8.3E-01 Y19177.1	8.3E-01 U46916.1	8.3E-01 U46916.1	8.3E-01 U46916.1	8.3E-01 U46916.1	8.3E-01 AL161540	8 3E-01 A1704062	1000	8.3E-01 /	8.35-01	8.3E-01 A	8.3E-01	8.3E-01	8.2E-01 A	8.2E-01 A	8.2E-01 A	8.2E-01/A	8.2E-01 A	8.2E-01 Z12126.1	8.2E-01 AF052659	8.2E-01 09JI70
	Expression Signal	2.52	2.63	1.29	0.84	2.7	2.7	3.13	2.31	2.64	1	3.11	1.12	1.12	0.95	0.95	2.13	4.2	100	1.23	2.7	2.46	2.46	2.03	2.99	1.51	1.14	-	3.26	3.58	1.53	99'9
	ORF SEQ ID NO:					25145	25146		20486	22774	23434	23619	24570	24571	24570	24571	24839		27044	27062	70617	28204		28760	21789	-		24691	26154	26330	27871	28028
	Exon SEQ ID NO:	19643		19238	14008	19443	19443	17571	10656	12983	13651	13839	14796	14796	14796	14796	15145	17424	47870	17747		17953	17967	18488	11898	11934	12513	14917	15016	19462	17638	17787
	Probe SEQ ID NO:	9430	9436	9683	4108	5378	5378	7721	724	3056	3739	3930	4917	4917	5177	5177	5222	7573	7822	7867		8062	8076	8623	2006	2043	2646	5045	6122	6306	7788	7837

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Evon Purbas Evorassed in

Single Exon Probes Expressed in Heart	Top Hit Database Source	NT Human insulin receptor (allele 2) gane, exons 14, 15, 16 and 17		NT Giardia lambila variant-specific surface protein G3M-R (vsnG3M-R) mRNA nertial and	SWISSPROT SMALL HYDROPHOBIC PROTEIN		SWISSPROT NEURAL-CADHERIN PRECURSOR (N-CADHERIN)	Г	Г						Miss missalins major histocompatibility locate alocal and an extraction of the control of the co	chain (Natabha) and major histocompatibility protein class II tegion. Integration in the chain (IEbeta) genes, complete cds; butwoohilin-like (NG9) butwoohilin-	ISSPROT					SWISSPROT RAFFINOSE INVERTASE (INVERTASE)	Ι.	EST_HUMAN yf24b02.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE-197755.2				Arabidopsis thaliana 3-methylcrotonyl-CoA carboxylase non-biotinylated subunit (MCCB) mRNA, complete cds
Singl	Top Hit Acession No.	+				7662471 NT			7.8E-01 AW959587.1 E		7.8E-01 AF115856.1 NT	/10159.1		7.7E-01 AF184345.1 NT		NF050157.1		8393408 NT	7.7E-01 AF118085.1 NT						F184345.1 NT	497621	F059510.1 NT	F059510.1 NT
	Most Similar (Top) Hit BLAST E Value	7.9E-01 M29930.	7.9E-01 X90998.1	7.9E-01 U01912	7.9E-01 P19719	7.9E-01	7.9E-01 P19022	7.8E-01 Z43785.1	7.8E-01	7.8E-01 U87305.	7.8E-01	7.8E-01 Y10159.1	7.8E-01 L29260.1	7.7E-01		7.7E-01 AF05015	7.7E-01 033915	7.7E-01	7.7E-01	7.7E-01	7.7E-01 AF199488	7.7E-01 P16553	7.7E-01 P16553	7.7E-01 R08600.1	7.7E-01 AF184345	7.7E-01	7.6E-01 AF059510	7.6E-01 AF059510
-	Expression Signal	1.01	2.43	4.78	3.95	2.36	2.48	1.76	3.2	0.79	2.32	1.27	1.42	6.33		1.85	2.8	0.8	4,45	2.88	2.88	1.44	1.44	1.95	2.6	6.14	4.04	4.04
	ORF SEQ ID NO:		26790	27582	27864		28682		22016	24278	25709	27399		19932			22436		23259	23979	23980	25386	25387	25630	19932		25720	25721
	Exen SEQ ID NO:	14954	16601		17631	18249	18415	10784	- [15607	17199	19623	10112		10641	12545	13234	13464	14195	14195	15335	15335	15541	10112	19004	15618	15618
	, Probe SEQ ID NO:	6084	6721	7504	7781	8372	8543	828	2229	4603	9699	7323	9424	138		709	2680	3313	3549	4297	4297	5415	5415	5626	9212	9311	5710	5710

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Chigo Explosed III Teal	Top Hit Descriptor	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds	Homo saplens nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 (NFKB1) gene, complete cds	zxt2g12.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:786310 3' similar to contains element TAR1 repetitive element ;	Drosophila melanogaster Mst85C gene, complete cds; NMDMC Isoform (Nmdmo) gene, complete cds, alternatively spliced: and transcription fector (Delich) cases are also cases are also cases and transcription fector (Delich) cases are also cases are also cases and cases are also cases and cases are also cases and cases are also cases are also cases and cases are also cases are also cases and cases are also cases and cases are also cases and cases are also c	Mus musculus Wiskaft-Aldrich syndrame protein (Wash) replace das, artematively spliced	S.fuberosum mRNA for glucose-6-phosphate dehydrogenase	xe95g12x1 NCI CGAP Co17 Homo sepiens cDNA clone IMAGE-75724508 31	Dendrobíum fimbriatum mRNA for phosphoenolovruvata carboxylase, partial	Helicobacter pylori, strain J99 section 47 of 132 of the complete genome	Gallid herpesvirus 2. complete genome	Gallid herpesvirus 2, complete genome	Pseudomonas aeruginosa PA01, section 167 of 529 of the complete genome	Helicobacter pylori, strain J99 section 47 of 132 of the complete genome	CM3-HT0769-010600-197-c03 HT0769 Homo sanlens cDM4	N-ACETYLGLUCOSAMINYL-PHOSPHATIDY INOSITOI RIOSYNITHETIC BECTEIN CEL	Homo sapiens SLIT1 protein (SLIL2) mRNA partial cds	Homo sapiens lens epithelium-derived growth factor gene, alternatively splined, complete color	Homo septiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short extendesmic domain (sementaria) RA (SEAARA).	Galbicans random DNA marker 282bb	Uman Leadille, the	Truman nereditary hasmochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene. RoRet gene, and sodium phosphate transporter (NDT-2)	Mus musculus kinesin light chain 2 (Kt-2) mRNA	AV660506 GLC Homp seniens CINA clane Cl CCIDA a	Homo sapiens chromosome 21 segment HS24C078	Vibrio cholerae chromosome II. section 39 of 93 of the complete chromosome	H.vulgaris Na,K-ATPase alpha subunit mRNA complete cate	H.vulgaris Na,K-ATPase alpha subunit mRNA, complete cds
	Top Hit Datebase Source	Ę	ᅜ	EST_HUMAN	Į.	¥	NT	EST HUMAN	NT	ΙŻ	Ę	FZ.	NT LN	F	EST HUMAN	SWISSPROT	F	닐		N.		F	Ę	EST HUMAN		E	F	N
	Top Hit Acession No.	6.7E-01 AF213884.1	6.7E-01 AF213884.1	6.7E-01 AA4\$1864.1	6.7E-01 AF186073.1	6678580 NT	(74421.1	1.		6.7E-01 AE001486.1	9635035 NT	9635035 NT	6.7E-01 AE004606.1	6.7E-01 AE001486.1			-	6.6E-01 AF199339.1	4506880 NT				6680577 NT	-	2	-		
	Most Similar (Top) Hit BLAST E Value	6.7E-01	6.7E-01	6.7E-01	6.7E-01	6.7E-01	6.7E-01 X74421.1	6.7E-01	6.7E-01	6.7E-01	6.7E-01	6.7E-01	6.7E-01	6.7E-01	8.7E-01	6.7E-01 014357	6.6E-01	6.6E-01	6.6E-01	6.6E-01 Y07669.1		6.6E-01 U91328.1	6.6E-01	6.6E-01 AV660506.	6.6E-01 AL163278.	6.6E-01	6.5E-01 M75140.1	6.5E-01 M75140.1
	Expression Signal	29.34	19.53	1.57	3.59	3.7	96.0	0.85	0.89	1.62	1.42	1.42	3.98	1.46	2.23	3.69	0.87	1.29	1.04	3.05		0.87	3.96	3.63	2.41	1.35	1.37	1.37
	ORF SEQ ID NO:	20080	20110	21887	21908	22692	24032	24538	24811	25631	25836	25837		26367	28449	28147	22227	22422	23168	23310			25840	26563		25256	20352	20363
	Exon SEQ ID NO:	10259	10295	11989	12713		14246	14762	15046	15542	15723	15723	16192	16205	18200	17903	12329	12532	13362	13522		13924	15728	16384	17422	19197	10544	10544
	Probe SEQ ID NO:	295	336	2100	2120	2966	4350	4881	5182	5627	6817	5817	6329	6342	8323	8754	2452	2867	3445	3608		4020	5822	6525	7571	9619	88	608

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	1			Most Similar	5	DIE EAUIT FIU	Single Exort Probes Expressed in Heart
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
3386	13304	23104	5.1	6.5E-01	AB041225.1	F	Mus musculus gene for Tob2, complete cds
3951		23633	1.08	6.5E-01	4504632 NT	Þ	Homo saplens interleukin 10 receptor. alpha (IL 10RA) mRNA
4185	14085		4.17	6.5E-01	6.5E-01 AJ272265.1	Ę	Homo sapiens SPP2 gene for secreted phosphonrotein 24 precitizor expos 1-8
4215	14113	23890	0.86	6.5E-01	6.5E-01 AL161539.2	N FN	Arabidopsis thaliana DNA chromosome 4, config fragment No. 39
4994	14869	24632	2.27	6.5F-01	6.5E-01 (128921 1	TN	Phasentie untrafe ATDese nomme entremts mount
F.4.7E	L		6	L		!	Acetobacter xylinum putative ATP binding protein delta-AceB gene, partial cds, and GDP-mannose:cellobiosyl
			0.00	0.05-01	6.0E-01 U3/258.1	iz	diphosphopolyprenol alpha-mannosyltransferse gene, complete cds
6036	- (26071	1.38	6.5E-01	6.5E-01 D88348.1	TN.	Chicken mRNA for 115-kDa melanosomal matrix protein, complete ods
7919	17769	28008	2	6.5E-01	6.5E-01 AF119676.1	NT	Mus musculus small GTP-binding protein RAB25 (Rab25) gene, complete cds
8030	17922	28168	3.24	6.5E-01	6.5E-01 H87583.1	EST HUMAN	W47706.1 Sogres placenta 8to9weeks 2NbHP8tn9W Home caniene - DNA Jone MAAGE Severe E
8073	17964	28215	4.03	6.5E-01	2	EST HUMAN	no15c07.s1 NCI CGAP Phet Homo sapiens cDNA clone IMAGE-1100728 3
8170	18058		4.27	6.5E-01		EST_HUMAN	AU138078 PLACE1 Homo sapiens cDNA clone PLACE1007810 5'
8877	18689	28981	23	6.5E-01	6.5E-01 AF014115 1	Ę	Plasmodium berghei cytochrome c oxidase subunit III, cytochrome c oxidase subunit I, and cytochrome b
9419			2.79	6.5E-01	6.5E-01 BE465050.1	EST HUMAN	hydratoxt NCI CGAP 1u24 Home sanions child almo MACE: 3470400 21
9651	19490		1.69	6.5E-01	274145.1	F	S.cerevisiae chromosome IV reading frame ORF VDI 0976
252	10218	20035	5.4	6.4E-01		Į.	Drosophila melanogaster 8kd dynein light chain mRNA comniste cde
3410	13327	23128	2.45	6.4E-01		F	Mus musculus dystroglycan 1 (DAG1) gene exons 1 and 2 and complete color
3785	13697	23484	1.34	6.4E-01	6.4E-01 AB046827.1	N	Homo sapiens mRNA for KIAA1607 protein, partial cds
4389		24086	0.84	6.4E-01		N P	M.musculus whn gene
4389		24067	0.84	6.4E-01		F	M.musculus whn gene
7007		27078	1.78	6.4E-01	7.1	IN	Treponema pallidum section 63 of 87 of the complete genome
7807		27895	13.62	6.4E-01		F	Homo saplens ataxa telanglectasta (ATM) gene, complete cds
7818		27908	1.44	6.4E-01	6.4E-01 BF670405.1	EST_HUMAN	602150289F1 NIH MGC_81 Homo sapiens cDNA clone IMAGE:4291126 5
9528			6.34	6.4E-01	6.4E-01 AV759212.1	EST_HUMAN	AV759212 MDS Homo sepiens cDNA clone MDSCGC09 5'
9951	$_{\perp}$		1.65	6.4E-01	5300	1	Rat cytomegalovirus Maastricht, complete genome
427		20196	4.41	6.3E-01 P05228		SWISSPROT	HISTIDINE-RICH PROTEIN PRECURSOR (CLONE PEHRP.III)
524		20277	2.15	6.3E-01	6.3E-01 U32689.1	Z,	Haemophilus influenzae Rd section 4 of 163 of the complete genome
2116		21903	3.87	6.3E-01		R	Shigella flexneri multi-antibiotic resistance locus
2534	ı	22300	3.89	6.3E-01	6.3E-01 U75331.1	N.	Gallus gallus bone morphogenetic protein 1 (BMP1) mRNA nartial cde
2534		22301	3.89	6.3E-01		F	Gallus gallus bone morphogenetic protein 1 (BMP1) mRNA, partial cds
2983	12911	-	0.83	6.3E-01 Y17275.1		NT	Lycopersican esculentum p69a gene, complete CDS
				•			

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Single Exon Probes Expressed in Heart	Most Similar Expression (Top) Hit Acession Signal BLASTE No. Source	1.38 6.3E-01 X99675.1 INT D. melanogaster mRNA for metahotronic of itemate recentor	6.3E-01 BE902044.1 EST HUMAN	S62927.1 NT	2.72 6.3E-01 9627521 NT	2.72 6.3E-01 9627521 NT	1.4 6.3E-01 AE000313.1 NT Escherichia coli K-12 MG1655 section 203 of 400 of the complete neurome	EST HUMAN	EST HUMAN	SWISSPROT	1.98 6.3E-01 P36073 SWISSPROT HYPOTHETICAL 15.3 KD PROTEIN IN VMA12-APN1 INTERGENIC REGION	9910293 NT	7.1 NT	Z	SWISSPROT	N-1	5.45 6.2E-01 H72255.1 EST HUMAN 1/201e08.s1 Soares fetal liver spleen 1NFLS Homo saniens CDN4 clarate 1/4 CE-24 as 4.2	7:1 EST HUMAN	Г		5.02 6.2E-01 P27410 SWISSPROT PROTEASE P3C: HELICASE (2C LIKE PROTEIN): COAT DROTEIN:		6678076 NT		N N	6.1E-01 M64733.1 NT	6.1E-01 M64733.1 NT	6.1E-01 AF033535.1 NT	6.1E-01 11431065 NT	. 6.1E-01 11431065 NT	
			L															L												·	
	on ORF SEQ 2 ID ID NO: 0:	13892 23668	16837	17027 27223	17288 27495		17854 28095	18288 28543	18511 28791			19697 24899	18944		15493 25569			16448 26638		17649 27886	17857 28099	17857 28100	12225	14809 24577						16985 27176	
	Probe Exon SEQ ID SEQ ID NO: NO:	3985 13			7421 17	L	8004 17	8413 18									_			7799 176	8007 178	8007 178	Ш							7108 169	

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용 ^의		Sec. Similar (Top) Hit (To	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Je Exon Prot Top Hit Database Source Source Source Source NT	Singlie Exon Probes Expressed in Heart Top Hit Descriptor Top Hit Dabbase Source NIT Home seplems department framsporter (SLG&A3) gens, complete cds NIT Home seplems department by protein complete cds NIT Home seplems department with the strain CSRA'S) gens, complete cds NIT Home seplems department with the strain CSRA'S, and a Submitt (CAA2), mRNA NIT HUMAN I DIA-BIRT-abe-A10-C-LUs INCI CGAP, Sub3 Home seplems cDNA come India complete cds NIT Muse demanstration PROTEIN PLOSAP Sub3 Home seplems cDNA complete cds NIT Muse demanstration PROTEIN FUSH TARAZU NIT HOME seplems genes for leukotinen B4 receptibe self-nichtenen B4 receptor BLT, complete cds SWISSPROT SEGMENTATION PROTEIN FUSH TARAZU NIT HOME seplems genes for leukotinen B4 receptub self-nichtenen B4 receptor BLT, complete cds SWISSPROT SEGMENTATION PROTEIN FUSH TARAZU NIT HOME seplems received the seplems CAACU SET HUMAN (10 CGAP) PPS Home seplems cDNA (10 Seferm) Mish meacue complete cache factor (enytherial derived Seplems CDNA (10 Seferm) NIT Home seplems maker factor (enytherial derived Self-nicht Mace 2018-582) in RNA BEST HUMAN (10 CGAP) PRES Home seplems cDNA (10 Seferm) NIT Home seplems nuclear factor (enytherial derived Self-nicht genome NIT Home seplems have density liboraciden receptor-leited protein il (LRP2) gene, exen 1 and partial cds NIT Home seplems chromosome 21 sepment HS2/CG67 NIT Home seplems between 2 mRNA, partial cds SWINSSPROT I TYMINDY-LIE (NIAASE (CTRTE NIAASE) SWINSSPROT I TYMINDY-LIE (NIAASE (CTRTE NIAASE) NIT Home seplems so cinculus sible in Effective for confidence 3 complete ge
- 「 田 田 5 「4」4」4」4」4」4」4」4」4」4」4」4」4」4」4」4】4】4】4】4	ORF SEQ ID NO: 27860 20243 24103 2348 24918 25986 25917 28541 28565 2856 2856	ORF SEQ Expression ID NO: Signal 27860 1.59 20243 0.92 20243 0.92 24918 1.56 25086 2.58 25072 1.09 2672 4.19 2672 4.19 2672 6.2 25968 2.61 2672 6.2 25968 2.61 2672 6.2 25968 2.61 2672 6.2 2596 7.16 2672 6.2 25968 2.61 2672 6.2 25968 2.61 26854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2854 1.78 2855 2.14 25856 2.18 25856 2.36 25856 2.36 25856 2.36 25857 2.19 25845 3.1	ORF SEQ Expression (To Signal ID NO: Signal	ORF SEQ Expression (Top) Hit Top Hit Aces Signal Signal 1.59 6.0E-01 AF119117.1 No. 20243 0.92 6.0E-01 D87675.1 20243 1.02 6.0E-01 AF065253.1 23438 1.02 6.0E-01 AF065253.1 23438 1.02 6.0E-01 AF065253.1 23438 1.02 6.0E-01 AF065253.1 23675 6.2 6.0E-01 AF065253.1 26794 4.19 6.0E-01 AF065253.1 26794 4.19 6.0E-01 AF06523.1 26795 4.19 6.0E-01 AF06523.1 26795 2.74 6.0E-01 AF06523.1 28541 1.78 6.0E-01 AF06523.1 25291 1.64 6.0E-01 AF06523.1 25295 4.85 6.9E-01 AF06540.2 25954 4.85 6.9E-01 AF06540.2 22955 4.85 6.9E-01 AF06540.2 22955 4.85 6.9E-01 AF06540.2 22955 2.15 6.0E-01 AF06656.1 22955 2.15 6.0E-01 AF06540.2 22955 2.15 6.0E	Most Similar Top Hit Acession Top Hit Acessio

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ORF SEQ Expression of Top) Hit Top Hit Acession of Top Hit Top Hit Acession of Signal
25596 0.96 6.8E-01 BF695738.1 EST HUMAN 24090 2.81 6.8E-01 AF10846.1 NT 25768 1.04 5.8E-01 AF10846.1 NT 25768 1.29 6.8E-01 D78659.1 EST HUMAN 26830 2.23 5.8E-01 P14328 SWISSPROT 26831 2.23 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 P14328 SWISSPROT 2724 8.64 5.8E-01 B170092.1 EST HUMAN 2724 8.64 5.8E-01 B170092.1 EST HUMAN 272515 1.48 5.7E-01 AP014328 SWISSPROT 28533 1.66 6.7E-01 AP01481.1 NT 2864 3.7E-01 AP01481.1 NT 28654 3.7E-01 AP01481.1 NT 28603 1.41 6.7E-01 AP01481.1 NT 28604 1.41 6.7E-01 AP01481.1 NT 28603 1.86 6.7E-01 AP014828.2 NT 28044 1.21 6.7E-01 AP018283.2 NT <t< td=""></t<>
24090 2,81 5.8E-01 AF1009077.1 INT 25768 1.29 5.8E-01 AF1008077.1 INT 25768 1.29 5.8E-01 D78659.1 EST_HUMAN 26830 2.23 5.8E-01 P14328 SWISSPROT 26831 2.23 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 P14328 SWISSPROT 27254 8.64 5.8E-01 P14328 SWISSPROT 27264 8.64 5.8E-01 P1700092.1 EST_HUMAN 272915 1.48 5.7E-01 AP014323.1 INT 24827 2.24 5.7E-01 AP014323.1 INT 24827 2.24 5.7E-01 AP014333.1 EST_HUMAN 25603 1.41 5.7E-01 AP014233.2 INT 25044 1.21 5.7E-01
25768 1.04 5.8E-01 D78669.1 INT 25768 1.29 5.8E-01 D78669.1 EST_HUMAN 26830 2.3 5.8E-01 P14328 SWISSPROT 26831 2.23 5.8E-01 P14328 SWISSPROT 26832 2.23 5.8E-01 P14328 SWISSPROT 27224 8.84 5.8E-01 P14328 SWISSPROT 27243 8.47 5.8E-01 P14328 SWISSPROT 27244 8.84 5.8E-01 P14328 SWISSPROT 278483 8.47 5.8E-01 BF700092.1 EST_HUMAN 22915 1.48 5.7E-01 AB033503.1 INT 24827 2.43 5.7E-01 AF011681.1 INT 25854 3.72 5.7E-01 AF011681.1 INT 26603 2.12 5.7E-01 AF01681.1 INT 23044 1.21 5.6E-01 AF01681.1
262 5.8E-01 D78659.1 EST HUMAN 26830 2.23 5.8E-01 H41571.1 EST HUMAN 26831 2.23 5.8E-01 P14328 SWISSPROT 26831 2.23 5.8E-01 P14328 SWISSPROT 27724 8.64 5.8E-01 P14328 SWISSPROT 27724 8.64 5.8E-01 P14328 SWISSPROT 2783 8.47 5.8E-01 AJ270774.1 NT 228483 8.47 5.8E-01 AJ270774.1 NT 228483 8.47 5.8E-01 AJ27323.1 NT 228484 8.47 5.8E-01 AP00092.1 EST HUMAN 22854 3.72 5.7E-01 BF036543.1 EST HUMAN 24874 1.41 5.7E-01 AP011823.2 NT 26603 2.12 5.7E-01 BF036543.1 EST HUMAN 26603 2.12 5.7E-01 BF036543.1 EST HUMAN 26603 2.12 5.7E-01 BF036543.1 EST HUMAN 28044 1.21 5.6E-01 AB018233.2 NT 23044 1.21 5.6E-01 AB018233.2 NT 23509 0.83 5.6E-01 AB018233.1 NT 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 5.6E-01 AV684703.1 EST HUMAN 28059 5.6E-01 AV684703.1 EST HUMAN 27181 5.6E-01 AV684703.1 EST HUMAN 28059 5.6E-01 AV684703.1 EST HUMAN
2.62 5.8E-01 H41571.1 EST HUMAN 2.6830 2.23 5.8E-01 P14328 SWISSPROT 2.6831 2.23 5.8E-01 P14328 SWISSPROT 2.7224 8.64 5.8E-01 P14328 SWISSPROT 2.7224 8.64 5.8E-01 AJZ70774.1 NT 2.8483 8.47 5.8E-01 AJZ43213.1 NT 2.2915 1.48 5.7E-01 BF700092.1 EST HUMAN 2.2915 1.48 5.7E-01 AB033503.1 NT 2.4827 2.24 5.7E-01 AF011681.1 NT 2.4827 2.24 5.7E-01 AF011681.1 NT 2.4827 2.24 5.7E-01 BF035413.1 EST HUMAN 2.4874 1.41 5.7E-01 AF011681.1 NT 2.6503 2.12 5.7E-01 BF035413.1 EST HUMAN 2.3044 1.21 5.6E-01 AB018283.2 NT 2.3504 1.21 5.6E-01 AB018283.2 NT 2.3504 0.83 5.6E-01 AB018283.1 EST HUMAN 2.7180 4.16 5.6E-01 AV84703.1 EST HUMAN 2.7181 4.16 5.6E-01 BE888280.1 EST HUMAN 2.7181 4.16 5.6E-01 AV884703.1 EST HUMAN 2.7181 4.15 5.6E-01 AV884703.1 EST HUMAN
2.62 5.8E-01 H41571.1 EST HUMAN 2.6831 2.23 5.8E-01 P14328 SWISSPROT 2.7224 8.64 5.8E-01 AJZ70774.1 NT 2.7224 8.64 5.8E-01 AJZ70774.1 NT 2.8483 8.47 5.8E-01 BF700092.1 EST HUMAN 2.2915 1.78 5.8E-01 BF700092.1 EST HUMAN 2.243 5.7E-01 AF011581.1 NT 2.4827 2.24 5.7E-01 AF011581.1 NT 2.4827 2.24 5.7E-01 AF011581.1 NT 2.4827 2.24 5.7E-01 AF011581.1 NT 2.4827 2.12 5.7E-01 AF111440.1 NT 2.6603 2.12 5.7E-01 AF111440.1 NT 2.6603 2.12 5.7E-01 AF111440.1 NT 2.8044 1.21 5.7E-01 AB018283.2 NT 2.3043 1.21 5.6E-01 AB018283.2 NT
26830 2.23 5.8E-01 P14328 SWISSPROT 26831 2.23 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 AJ270774.1 NT 28483 8.47 5.8E-01 BF700092.1 EST HUMAN 28483 8.47 5.8E-01 BF700092.1 EST HUMAN 22915 1.78 5.8E-01 G9WTJ2 SWISSPROT 243 5.7E-01 G9WTJ2 SWISSPROT 24827 2.24 5.7E-01 G9WTJ2 SWISSPROT 25854 3.72 6.7E-01 G9WTJ2 NT 26603 2.12 5.7E-01 GWTJ3.1 NT 26603 2.12 6.7E-01 GWTJ3.1 SWISSPROT 26603 2.12 6.7E-01 GWTJ3.1 SWISSPROT 26603 2.12 6.7E-01 GWTJ3.1 SWISSPROT 25044 1.21 5.6E-01 GWTJ3.1 SWISSPROT 23043 1.21 5.6E-01 GWTJ3.1 SWISSPROT 23509 0.83 5.6E-01 GWTJ3.1 SWISSPROT 23504 4.16 5.6E-01 GWTJ3.1 SWI
26831 2.23 5.8E-01 P14328 SWISSPROT 27224 8.64 5.8E-01 AJZ0774.1 NT 28483 8.47 5.8E-01 BF700092.1 EST HUMAN 28483 8.47 5.8E-01 BF700092.1 EST HUMAN 22915 1.78 5.8E-01 GP700092.1 EST HUMAN 22915 1.48 5.7E-01 G9WTJ2 SWISSPROT 24827 2.24 5.7E-01 AF011681.1 NT 24827 2.24 5.7E-01 AF011681.1 NT 24874 1.41 5.7E-01 BF03543.1 EST HUMAN 25653 2.12 5.7E-01 BF0351.1 NT 26603 2.12 5.7E-01 BF0353.2 NT 25044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB048283.1 EST HUMAN 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 A
27224 8.64 5.8E-01 AJ270774.1 NT 28483 8.47 5.8E-01 AJ243213.1 NT 28483 8.47 5.8E-01 BF700092.1 EST HUMAN 1.78 5.8E-01 BF700092.1 EST HUMAN 22915 1.48 5.7E-01 G9WTJ2 SWISSPROT 243 5.7E-01 AF011681.1 NT 24827 2.24 5.7E-01 AF011681.1 NT 25854 3.72 5.7E-01 BF035413.1 EST HUMAN 26603 2.12 5.7E-01 BF035413.1 EST HUMAN 25043 1.21 5.7E-01 BF0373 SWISSPROT 23043 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB018283.2 NT 27180 4.16 5.6E-01 AB048283.1 EST HUMAN 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUM
28483 8.47 5.8E-01 AJ243213.1 NT 3.23 5.8E-01 BF700092.1 EST HUMAN 1.78 5.8E-01 BF700092.1 EST HUMAN 22915 1.48 6.7E-01 Q9WTJ2 SWISSPROT 24827 2.24 5.7E-01 AF011681.1 NT 24827 2.24 5.7E-01 AF011681.1 NT 25854 3.72 6.7E-01 BF035413.1 EST HUMAN 26603 2.12 5.7E-01 BF035413.1 EST HUMAN 25043 1.21 5.7E-01 BF0373 SWISSPROT 25044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB018283.2 NT 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HU
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22915 1.48 6.7E-01 Q9WTJ2 SWISSPROT 22853 1.66 6.7E-01 AF011681.1 NT 24827 2.24 6.7E-01 U78517.1 NT 25854 3.72 6.7E-01 BF036413.1 EST HUMAN 24874 1.41 6.7E-01 BF036413.1 EST HUMAN 25053 2.12 6.7E-01 P0373 SWISSPROT 1.68 6.7E-01 P0373 NT 23044 1.21 6.6E-01 AB018283.2 NT 23504 0.83 6.6E-01 AB018283.2 NT 23509 0.83 6.6E-01 AB018283.2 NT 27180 4.16 6.6E-01 AB0484703.1 EST HUMAN 27181 4.16 6.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 3.56E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV6845355.1 EST HUMAN 28794 1.73 5.6E-01 AV684505.5 SWISSPROT
243 5.7E-01 AB033503.1 NT 24827 2.24 5.7E-01 AF011681.1 NT 24827 2.24 5.7E-01 U78617.1 NT 25864 3.72 5.7E-01 BF035413.1 EST_HUMAN 24874 1.41 5.7E-01 AL111440.1 NT 26603 2.12 5.7E-01 BE715051.1 NT 25043 1.21 5.7E-01 BE715051.1 EST_HUMAN 23044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AB018283.2 NT 27180 4.16 5.6E-01 AB018283.1 NT 27181 4.16 5.6E-01 AB048335.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 1.73 5.6E-01 AA483535.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN
24827 2.24 5.7E-01 AF0115B1.1 NT 24827 2.24 5.7E-01 U78517.1 NT 25854 3.72 5.7E-01 BF035413.1 EST HUMAN 24874 1.41 5.7E-01 AL111440.1 NT 26603 2.12 5.7E-01 AL111440.1 NT 25043 1.21 5.7E-01 BE715051.1 EST HUMAN 23043 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-0
24827 2.24 5.7E-01 U78517.1 NT 25854 3.72 5.7E-01 BF035413.1 EST HUMAN 24874 1.41 5.7E-01 AL111440.1 NT 26603 2.12 5.7E-01 P00373 SWISSPROT 23043 1.21 5.6E-01 BE715051.1 EST HUMAN 23044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AV684703.1 EST HUMAN
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26603 2.12 5.7E-01 P00373 SWISSPROT 23043 1.21 5.6E-01 BE715051.1 EST_HUMAN 23044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 23818 0.83 5.6E-01 D83135.1 NT 27180 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 2.46 5.6E-01 BE888280.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 B60505 SWISSPROT
23043 1.21 5.6E-01 BE715051.1 EST HUMAN 23044 1.21 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 237180 4.16 5.6E-01 D83135.1 NT 27180 4.16 5.6E-01 AV684703.1 EST HUMAN 27181 4.16 5.6E-01 AV684703.1 EST HUMAN 28794 1.73 5.6E-01 AA483535.1 EST HUMAN 1.32 5.6E-01 AA483535.1 EST HUMAN 1.32 5.6E-01 AA483535.1 EST HUMAN
23043 1.21 5.6E-01 AB0162B3.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 23818 0.83 5.6E-01 AL461501.2 NT 27180 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN
23509 0.83 5.6E-01 AB018283.2 NT 23509 0.83 5.6E-01 AL161501.2 NT 23180 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 4.16 5.6E-01 AV684703.1 EST_HUMAN 27181 2.46 5.6E-01 AV684203.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN
23509 0.83 5.6E-01 AL161501.2 NT 23818 0.83 5.6E-01 D83135.1 NT 27180 4.16 5.6E-01 AV884703.1 EST_HUMAN 27181 4.16 5.6E-01 AV884703.1 EST_HUMAN 28794 1.73 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN 1.32 5.6E-01 AA483535.1 EST_HUMAN
23818 0.83 5.6E-01 D83135.1 NT 27180 4.16 5.6E-01 AV884703.1 EST_HUMAN 27181 4.16 5.6E-01 AV884703.1 EST_HUMAN 2.46 5.6E-01 BE88280.1 EST_HUMAN 28794 1.73 5.6E-01 AA493535.1 EST_HUMAN 1.32 5.6E-01 P60505 SWISSPROT
27180 4.16 5.6E-01 AV884703.1 EST_HUMAN 27181 4.16 5.6E-01 AV884703.1 EST_HUMAN 2.46 5.6E-01 BE88280.1 EST_HUMAN 28794 1.73 5.6E-01 AA493535.1 EST_HUMAN 1.32 5.6E-01 P60505 SWISSPROT
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246 . 5.6E-01 BE88280.1 EST_HUMAN 28794 1.73 5.6E-01 AA493535.1 EST_HUMAN 1.32 5.6E-01 P60505 SWISSPROT
28794 1.73 5.6E-01 AA493535.1 EST_HUMAN 1.32 6.6E-01 P60505 SWISSPROT
1.32 6.6E-01 P60505 SWISSPROT
ION IONIO
19392 3 09 5 6F-04 RE572820 4 FEET LINAAN LEADAGACATA NIII 1100 21 11
602132029F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271334 5

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					,	21	Our Block Explicased III Hear
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Datebase Source	Top Hit Descriptor
1193	11103	20949	1.09	5.5E-01	8393912 NT	NT	Rattus norvegicus Propionyl Coenzyme A carboxylase, beta polypeptide (Pcch) mBNA
2668	12533	22423	2.88	5.5E-01	5.5E-01 P03341	SWISSPROT	GAG POLYPROTEIN (CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL PROTEIN P30; NUCLEOPROTEIN P10]
2668	12533	22424	2.88	5.5E-01	6.5E-01 P03341	SWISSPROT	GAG POLYPROTEIN [CONTAINS: INNER COAT PROTEIN P12; CORE PROTEIN P15; CORE SHELL PROTEIN P30; NJC FOPROTEIN P401
2888		22608	1.34	5.5E-01	5902085 NT	LN	Homo Saplens superkiller viralicitic activity 2 / 8 corestreise homology lite. (1971) (1971)
3027	12955		1.39	5.5E-01	5.5E-01 H46219.1	EST HUMAN	19018a10.s1 Soares adult brain N2b5HR5557 Homo saniens china change and contractions of
3196		22926	3.1	6.5E-01	6.5E-01 AF227240.1	N	Rabbit oral bapillomavirus, complete nanome
3634	13548	23335	1.29	5.5E-01	5.5E-01 P48755	SWISSPROT	FOS-RELATED ANTIGEN-1
139	10113	19933	3.74	5.4E-01	7657266 NT	Z	Homo sapiens KIAA0929 protein Msx2 interacting nuclear target (MINIT) homology (KIAA0929 protein Msx2 interacting nuclear target (MINIT) homology (KIAA0929)
139	10113	19834	3.74	5.4E-01	7657268 NT	Ŋ	Homo segiens KIAA0929 protein Msv2 Interaction mirries forms in the second of the seco
570	10509	20316	261	6.4E-01	6.4E-01 AF232006.1	F	Pseudomonas syringae pv. tomato strain DC3000 AvrE (avrE), HrpW (hrpW), and GstA (gstA) genes, complete cds; and unknown genes
570	10509	20317	261	5.4E-01	5.4E-01 AF232006.1	LV.	Pseudomonas syringae pv. tomato strain DC3000 AvrE (avrE), HrpW (hrpW), and GstA (gstA) genes,
1250	11157	21006	2.24	5.4E-01	5.4E-01 AW895087.1	EST HUMAN	QV4-NN0040-070400-160-094 NN0040 Home senions - DNA
2059	11949		2.78	5.4E-01	5.4E-01 AE002247.2		Chlamydophija pneumoniaa AS30 seedon 74 off of the community
2208	12095	21998	2.23	5.4E-01	5.4E-01 AJ276682.1	ĮN.	Drosophila melanodaster mRNA for 15 15' here cambra dimensional fractional
7738	17588		2.01	5.4E-01	5.4E-01 BF572536.1	EST HUMAN	602076545F1 NIH MGC 62 Homo sapiens cDNA clone IMAGE-4242600 E
8427	18301	28557	2.87	5.4E-01 P36858	P36858	SWISSPROT	NITRATE REDUCTASE INADPHI(NR)
8892	18702	28996	4.51	5.4E-01	Q60675	SWISSPROT	LAMININ ALPHA-2 CHAIN PRECURSOR (LAMININ M CHAIN) (MFROSIN HEAVY CHAIN)
8892	18702	28997	4.51	5.4E-01	5.4E-01 Q60675	SWISSPROT	LAMININ ALPHA-2 CHAIN PRECURSOR (LAMININ M CHAIN) (MEROSIN HEAVY CHAIN)
9087	18862		2.12	5.4E-01	5.4E-01 AI858398.1	EST_HUMAN	wB7g04x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2427126 3' similar to gb:M13452 LAMIN A (HUMAN);
505	10447	20260	2.02	5.3E-01	-	FN	Homo saplens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B (R) and complement factor B
2083	11982	21877	0.91	5.3E-01	5.3E-01 AF113919.1	Z	Brassica oleracea var canifara nhosnholinase D2/D/D2) was a canifara nhosnholinase D2/D/D2) was
2093	11982	21878	0.91	5.3E-01	_	N.	Brassica oleradea var. capitata phospholipase D2 (PLD2) gene, complete das
2755	12617	22508	8.24	5.3E-01	4506328 NT	NT	Homo sapiens protein tyrosine phosphalase recentor than the contract of tyrosine phosphalase recentor than the contract of tyronia and the contract of the con
2755	12617	22509	8.24	5.3E-01	5.3E-01 4506328 NT	PA FA	Homo saplens protein tyrosine phosphatase, receptor-type, zela pulypepuae 1 (P.1.PRZ.1) mKNA
3205	13129	22931	2,92	5.3E-01		NT	Homo sepiens secreted C-type lectin precursor (LSLCL) gene, complete cds

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Table 4
Single Exon Probes Expressed in Heart

20347 1.89 5.1E-01 M58509.1 NT	10537 20347 1.89 5.1E-01 M58509.1 NT	10537 20347 1.89 5.1E-01 M58509.1 NT	10537 20347 1.89 5.1E-01 M58509.1 NT	10537 20347 1.89 5.1E-01 M58509.1 NT
100001 100001	105601 202841 2 22 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	105601 202841 2 22 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	10560 Sylvey 2 20 5 47 24 4 Sec.	10560 20204
10569 20381 3.28 6.1E-01 A 1223044.4	10569 20381 3 28 K 1E 04 A 12220444	10hfol	10hfol	10000
	1000	1000	40560	40000
111	111	111	111	INI
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1.89 5.1E-01 M58509.1 NT	10357 20347 1.89 5.1E-01 M58509.1 NT	10357 20347 1.89 5.1E-01 M58509.1 NT	10357 20347 1.89 5.1E-01 M58509.1 NT	1.89 5.1E-01 M58509.1 (NT
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AB018283.2 NT 13124 1.22 5.2E-01 AB018283.2 NT NT 13278 1.26 5.2E-01 AB018283.2 NT NT 13494 1.76 5.2E-01 AA084165.1 EST HUMAN NT 14826 2.3287 1.06 5.2E-01 AA084465.1 NT NT 17611</td></t<></td></t<>	17036 215 5.3E-01 L01950.2 NT 18658 28946 5.62 5.3E-01 BE566291.1 EST HUMAN 1951 2.46 5.3E-01 L20770.1 NT 10728 20568 11.31 5.2E-01 L20770.1 NT 11061 20904 7.69 5.2E-01 Q9WV30 SWISSPROT 11789 2.1886 2.75 5.2E-01 AF224492.1 NT 11789 2.1886 2.75 5.2E-01 AF224492.1 NT 13008 2.2798 1.9 5.2E-01 AB018283.2 NT 13124 1.22 5.2E-01 AB018283.2 NT 13278 1.26 5.2E-01 AB048283.2 NT 13494 1.27 5.2E-01 AA084165.1 EST HUMAN 14826 2.3287 1.06 5.2E-01 AA084165.1 NT 1761 2.7837 1.28 5.2E-01 AA084465.1 NT 19260 2.5221 <t< td=""><td>17036 215 5.3E-01 L01950.2 NT 18658 28946 5.62 5.3E-01 BE566291.1 EST HUMAN 1951 2.46 5.3E-01 L20770.1 NT 10728 20568 11.31 5.2E-01 L20770.1 NT 11061 20904 7.69 5.2E-01 Q9WV30 SWISSPROT 11086 20930 2.83 6.2E-01 AF224492.1 NT 11789 5.04 5.2E-01 AF224492.1 NT 13008 2.276 5.2E-01 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AR984165.1 NT NT <!--</td--><td>15387 25446 1.91 5.3E-01 BE645620.1 EST_HUMAN 17038 2.15 5.3E-01 L01950.2 NT 18658 28946 5.62 5.3E-01 L01950.2 NT 10728 2.0568 11.31 5.2E-01 L20770.1 NT 11061 2.0904 7.69 5.2E-01 L20770.1 NT 11086 2.0900 7.69 5.2E-01 L20770.1 NT 11739 5.04 5.2E-01 L20770.1 NT 11739 5.04 5.2E-01 L20770.1 NT 13008 2.776 5.2E-01 AR22492.1 NT 13124 1.22 5.2E-01 AR22492.1 NT 13124 1.22 5.2E-01 AR32443.1 NT 13278 1.76 5.2E-01 AR384165.1 EST_HUMAN 13496 2.3287 1.06 5.2E-01 AR384165.1 EST_HUMAN 17611 2.75 5.2E-01 AR484165.1</td></td></td></td></t<>	15387 25446 1.91 5.3E-01 BE645620.1 EST_HUMAN 17038 2.15 5.3E-01 BE645620.1 EST_HUMAN 19551 2.46 5.3E-01 L01950.2 NT 10728 2.0568 11.31 5.2E-01 L20770.1 NT 11061 2.0904 7.69 5.2E-01 L20770.1 NT 11086 2.0904 7.69 5.2E-01 L20770.1 NT 11086 2.0904 7.69 5.2E-01 L20770.1 NT 11739 5.04 5.2E-01 L20770.1 NT NT 13008 2.776 5.2E-01 L16542.1 NT NT 13174 1.22 5.2E-01 L16542.1 NT NT 13278 1.23 5.2E-01 L116780.1 NT NT 13494 1.13 5.2E-01 AR984165.1 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5.2E-01 AP20492.1 NT 11739 5.08 5.2E-01 AP20492.1 NT 13008 2.75 5.2E-01 AP20492.1 NT 13124 1.2 5.2E-01 AP20492.1 NT 13124 1.2 5.2E-01 AP4043.3</td> <td>14017 1.29 5.3E-01 U396B7.1 NT 15270 2508B 1.75 5.3E-01 M820921.1 EST_HUMAN 15270 2508B 1.75 5.3E-01 BE645620.1 EST_HUMAN 15287 25447 1.91 5.3E-01 BE645620.1 EST_HUMAN 17038 216 5.3E-01 BE645620.1 EST_HUMAN 19551 2246 5.3E-01 BE645620.1 EST_HUMAN 10728 22068 11.31 5.2E-01 BE645620.1 EST_HUMAN 10728 22068 13.31 5.2E-01 BE645620.1 EST_HUMAN 10729 20904 7.69 5.2E-01 BE645620.1 EST_HUMAN 11086 20904 7.69 5.2E-01 BE645620.1 EST_HUMAN 11739 20804 7.69 5.2E-01 AP20492.1 NT 11739 5.08 5.2E-01 AP20492.1 NT 13008 2.75 5.2E-01 AP20492.1 NT 13124 1.2 5.2E-01 AP20492.1 NT 13124 1.2 5.2E-01 AP4043.3</td> <td>14017 1.29 5.3E-01 U396B7.1 NT 15270 2508B 1.75 5.3E-01 M820921.1 EST_HUMAN 15270 2508B 1.75 5.3E-01 BE645620.1 EST_HUMAN 15287 25447 1.91 5.3E-01 BE645620.1 EST_HUMAN 17038 2.15 5.3E-01 BE645620.1 EST_HUMAN 19551 2.0668 1.31 5.3E-01 BE645620.1 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14017 1.29 5.3E-01 U39687.1 NT	15387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12050221.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 120702.1 EST_HUMAN 1.0588 2.38946 5.62 5.3E-01 120702.1 EST_HUMAN 1.0728 2.0568 11.31 5.2E-01 120770.1 NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT 1.0728 1	15387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12050221.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 120702.1 EST_HUMAN 1.0588 2.38946 5.62 5.3E-01 120702.1 EST_HUMAN 1.0728 2.0568 11.31 5.2E-01 120770.1 NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT 1.0728 1	15387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12092021.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 12050221.1 EST_HUMAN 1.5387 25448 1.91 5.3E-01 120702.1 EST_HUMAN 1.0588 2.38946 5.62 5.3E-01 120702.1 EST_HUMAN 1.0728 2.0568 11.31 5.2E-01 120770.1 NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT NT 1.0728 2.0568 1.131 5.2E-01 120770.1 NT 1.0728 1	15270 25008 1.75 5.3E-01 1396987.1 NT 15270 25008 1.75 5.3E-01 14820921.1 EST_HUMAN 15270 25008 1.75 5.3E-01 14820921.1 EST_HUMAN 15287 25448 1.91 5.3E-01 18E645620.1 EST_HUMAN 17038 25448 1.91 5.3E-01 120160.2 NT 17038 20568 1.31 5.2E-01 120770.1 NT 17038 20568 1.31 5.2E-01 120770.1 NT 11061 20904 7.69 5.2E-01 120770.1 NT 11088 21886 2.75 5.2E-01 120770.1 NT 13080 22768 1.2 5.2E-01 1056921.1 EST_HUMAN 13124 23114 1.2 5.2E-01 1056921.1 NT 13494 23127 1.06 5.2E-01 1056941.2 NT 13496 23287 1.06 5.2E-01 A4084165.1 EST_HUMAN 14826 23287 1.06 5.2E-01 A4084165.1 EST_HUMAN 14826 23287 1.2 5.2E-01 A4084165.1 EST_HUMAN 13608 23287 1.2 5.2E-01 A4084165.1 EST_HUMAN 14826 25221 2.46 5.2E-01 A4084165.1 EST_HUMAN 14826 23287 1.06 5.2E-01 A4084165.1 EST_HUMAN 14826 25221 2.46 5.2E-01 A4084165.1 EST_HUMAN 19500 25221 2

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Polyangium vitellinum (strain Pl vt1) 16S rRNA gene	R.novegicus mRNA for mammalian fusca prohein	602139319F1 NIH MGC 46 Homo saniens cDNA clone IMAGE-4208117 F	W39b12.x1 NCI CGAP Utt Homo sapiens cDNA clone IMAGE-2427283 3	TRANSCRIPTION-REPAIR COUPLING FACTOR (TRCF)	yi94a09.s1 Soares placenta NbZHP Homo sapiens CDNA clone IMAGE:146872.3	Human regenerating protein (reg) gene, complete cds	65B1 Human retina cDNA Tsp509I-cleaved sublibrary Homo seniens cDNA not directional	601556863F1 NIH MGC 58 Homo saplens cDNA clone IMAGE:3826767 5	nac5ff10.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3406218 3' similar to contains element TAR1 repetitive element:	Homo sapiens posimeiolic segregation increased 2,11ke 0 (DMC2) o) mBNA	Homo sapiens postmeiotic segregation increased 2-like 9 (PMS21.9), mRNA	Buchnera aphidicola genomic fragment containing (chaperone Hsp60) groEL DNA biosynthesis initiating	protein (dnaA), ATP operon (atpCDGAHFEB), and putative chromosome replication protein (gldA) genes, complete cds: and termination factor Bha (Aha) was a	compressions, and communation rate (mg) general	buchnera aphidicola genomic fragment containing (chaperone Hsp60) groEL, DNA biosynthesis initiating protein (dnaA), ATP operon (atpCDGAHFEB), and putative chromosome replication protein (ntpA) menees	complete cds; and termination factor Rho (rho) gene>	Mus musculus anti-DNA immunoglobulin light chain IgM mRNA, antibody 363p.138. partial cds	Homo sapiens mRNA for KIAA1184 protein, partial cds	Xenopus laevis smooth muscle beta-tropomyosin mRNA, complete cds	601903871F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4136632 5'	GLYCOGEN DEBRANCHING ENZYME (GLYCOGEN DEBRANCHER) INCLUDES: 4-ALPHA-GLUCANOTRANSFERASE (OLIGO-1,4-1,4-GLUCANTRANSFERASE); AMYLO-1,6-GLUCOSIDASE (DEXTRIN 6-AI PHA-D-CI I ICOSIDASE)	GLYCOGEN DEBRANCHING ENZYME (GLYCOGEN DEBRANCHER) [INCLUDES: 4-ALPHA-GLUCANOTRANSFERASE]: AMYLO-1 8-GLUCOSIDASF	(DEXTRIN 6-ALPHA-D-GLUCOSIDASE)]	601445024F1 NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3849436 5	Oryzias latipes gene for membrane quanylyl cyclase OIGC1 complete cris	Mus musculus MRC OX-2 antigen homolog gene exons 2-5, and complete cds	Homo saplens chromosome 21 segment HS21C102	NUCLEAR ENVELOPE PROTEIN GUT11
gle Exon Pro	Top Hit Database Source	본	F	EST HUMAN	EST HUMAN	SWISSPROT	EST_HUMAN	F	EST_HUMAN	EST_HUMAN	EST HUMAN	N.	F		<u> </u>			노	NT	ŊŢ	NT TN	EST_HUMAN	SWISSPROT		SWISSPROT	EST_HUMAN	Ŋ	F	N	SWISSPROT
uis	Top Hit Acession No.	5.1E-01 AJ233944.1	5.1E-01 X87885.1	5.1E-01 BF683095.1	5.1E-01 AI858495.1	P96380			5.1E-01 W22302.1	5.1E-01 BF030207.1	5.1E-01 BF439982.1	4885552 NT	4885552 NT		5.0E-01 AF008210.1			-		5.0E-01 AB033010.1		5.0E-01 BF317212.1				3.1		5.0E-01 AF029215.1	02.2	
	Most Similar (Top) Hit BLAST E Value	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01 P96380	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.1E-01	5.0E-01	5.0E-01		5.0E-01			5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01	6.0E-01 P35573		5.0E-01 P35573	5.0E-01	5.0E-01	5.0E-01	5.0E-01	5.0E-01 013961
	Expression Signal	3.28	1.06	1.44	3.84	2.86	1.57	4.54	3.57	3.62	2.03	1.37	1.37		1.32			1.32	0.84	3.44	5.62	3.61	2.26		2.25	1.27	9.32	2.26	2.02	2.94
	ORF SEQ ID NO:	20382			23667				27653			21871	21872		21882			21883	23388	23495		26644	27614		27615		29099			
	Exon SEQ ID NO:	10569	11536	11870	13891	13994	15980	17435	17437	19478	19100	11977	11977		11986			11986	13601	13709	16839	16455	17401		17401	17791	18806	18913	19349	19358
	Probe SEQ ID NO:	632	1632	1977	3984	4094	6133	7584	7586	9230	9473	2087	2087		2097			/607	3688	3797	6961	7442	7550		7550	7941	9003	9170	9828	9869

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Table 4
Single Exon Probes Expressed in Heart

SEQ ID NO: 1772 1772 1772 1772 1772 1772 1772 177

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Table 4
Single Exon Probes Expressed in F

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| Top Hit Descriptor | qh59h02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849011 3' similar to TR:015338 015338 BUTYROPHILIN.; | qh59h02x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849011 3' similar to TR:015338 015338 BUTYROPHILIN | MEIOSIS SPECIFIC PROTEIN HOP1 | Emericella nidulans NEMPA (nempA) gene, mitochondrial gene encoding putative mitochondrial protein, complete cds | Emericella nidulans NEMPA (nempA) gene, mitochondrial gene encoding putative mitochondrial protein, complete cds | 602130953F1 NIH MGC 56 Homo saniens cDNA clone IMAGE:4787828 F | ATRIAL NATRIURETIC PEPTIDE RECEPTOR B PRECURSOR (ANP-B) (ANPRB) (GC-B) (GUANYLATE CYCLASE) | ATRIAL NATRIURETIC PEPTIDE RECEPTOR B PRECURSOR (ANP-B) (ANPRB) (GC-B) (GUANYLATE CYCLASE) | W973912.x1 Sogres NSF F8 9W OT DA P S1 Homo continue a DNA class 144 CF managed | Wq73e12.X1 Sogres NSF F8 9W OT PA P S1 Home contains CDNA class MA PERSONAL | PUTATIVE VITELL OGENIN RECEPTOR PRECY INSTANCE AND ACTOR INVACE 23/0700 3

 | IL6-HT0730-100500-075-005 HT0730 Home saniens cDNA

 | IL5-HT0730-100500-075-005 HT0730 Homo seniens cDNA
 | Human thiopurine methyltransferase (TPMT) gene exon 10 and complete ede

 | Human thiopunine methyltransferase (TPMT) gans, exon 10 and complete cds | HUM105F03B Clontech human fetal brain polyA+ mRNA (#9535) Homo saptens cDNA clone GEN-105F03 | Linantius jamensis maruhasa (man) ama sisani si | Deinococcus radiodurans R1 section 88 of 230 of the commission has | Deinococcus radiodurans R1 section 68 of 220 of the complete.
 | 255402.s1 Soares fetal liver spleen 1NFLS S1 Homo seniems cDNA clane INA CE 175120 21 | BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN | PRECURSOR (HSPG) (PERLECAN) (PLC)
 | Mus musculus DNA polymerase epsilon catalytic subunit (Pole) gene, exons 2 through 12 | COLLAGEN ALPHA 5(IV) CHAIN | assector: Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2353480 3* ho60d02x1 Soares NEFT GBC S4 Homo continue continue and decident and decide | CONTRACT CON |
| Top Hit
Database
Source | EST_HUMAN | EST HUMAN | SWISSPROT | Ā | Ł | EST HUMAN | SWISSPROT | SWISSPROT | EST HUMAN | EST HUMAN | SWISSPROT

 | EST HUMAN

 | EST HUMAN
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 | Z | EST_HUMAN | Ŀ | Į. | FZ
 | EST HUMAN | | SWISSPROT
 | L | SWISSPROT | ST HUMAN | |
| Top Hit Acession
No. | AI247679.1 | AI247679.1 | | | | | | | _ | - |

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 | | | 5.1 | |
| Most Similar
(Top) Hit
BLAST E
Vatue | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.6E-01

 | 4.6E-01

 | 4.6E-01
 | 4.6E-01

 | 4.6E-01 | 4.6E-01 | 4.6E-01 | 4.5E-01 | 4.6E-01
 | 4.5E-01 | 76 25 7 | 4.00-01
 | 10-10-1 | 4.31-01 | 4.5E-01 | |
| Expression
Signal | 3.29 | 3.29 | 1.58 | 1.47 | 1.47 | 13.48 | 26.48 | 26.48 | 1.33 | 1.33 | 2.86

 | 4.78

 | 4.78
 | 5.45

 | 5.45 | 1.43 | 221 | 1.73 | 1.73
 | 4.87 | 202 | 3.97
4.0E
 | 1.U3 | 1.4.1 | 4.02 | |
| ORF SEQ
ID NO: | 25384 | 25385 | 25393 | 26181 | 26182 | 26916 | 27430 | 27431 | 27802 | 27803 |

 | 28495

 | 28496
 | 28160

 | 28161 | | | 21639 | 21640
 | 22558 | 2000 | 23056
 | 70000 | 22665 | 3 | |
| Exon
SEQ ID
NO: | 15334 | 15334 | 15339 | 16040 | 16040 | 16722 | 17230 | 17230 | 17580 | 17580 | 18236

 | 18245

 | 18245
 | 17915

 | 17915 | 19005 | 19491 | 11765 | 11765
 | 12769 | 13106 | 13254
 | 12850 | 13880 | 15079 | |
| Probe
SEQ ID
NO: | 5414 | 5414 | 5418 | 6057 | 6057 | 6843 | 7363 | 7363 | 7730 | 7730 | 8359

 | 8368

 | 8368
 | 8766

 | 8766 | 9313 | 9978 | 1869 | 1869
 | 2841 | 3275 | 3334
 | 3062 | 3982 | 4085 | |
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Table 4
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4862	14742	L	0.94	4.5E-01	BE963445.2	EST HUMAN	601657225R1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3866023 3'
5406	15325	25375	1.45	4.5年-01	AW608814.1	EST HUMAN	QV2-PT0012-140100-031-c09 PT0012 Homo sapiens cDNA
5983	ı		1.47	4.5E-01	4.5E-01 Q00956	SWISSPROT	COAT PROTEIN
6488	16346	26515	2.49	4.5E-01	4.5E-01 AI858849.1	EST HUMAN	Wi32e02x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2426618 3' similar to TR:Q92923 Q92923 SWI/SNF COMPLEX 170 KDA SUBLINIT
6897	16776	26970	3.14	4.6E-01	4.5E-01 AI648596.1	EST HUMAN	1256g11.x1 NCI CGAP Ov35 Homo septiens cDNA clone IMAGE-2202844 3
7100			1.54	4.5E-01	11444786 NT	NT	Homo sapiens hypothetical protein DKFZp547G183 (DKFZp547G183), mRNA
7991	17841	28082	25.09	4.5E-01	4.5E-01 M86006.1	EST HUMAN	EST02531 Fetal brain. Stratagene (cat#938706) Homo seniens cDNA June HERCY47
7991	17841	28083	25.09	4.5E-01	4.5E-01 M86006.1	EST_HUMAN	EST02531 Fetal brain, Stratagene (catt936206) Homo sapiens cDNA clone HFBCY17
8237	18117	28369	2.42	4.5E-01	4.5E-01 AW591271.1	EST HUMAN	xo14h01.x1 NC _CGAP_Ut3 Homo saplens cDNA clone IMAGE:2703986 3' similar to SW:INT6_MOUSE Q64252 VIRAL INTEGRATION SITE PROTEIN INT.s. (1)
9036	19724		2.25	4.能으	4.5E-01 BE871461.1	EST HUMAN	601449201F1 NIH MGC 65 Home saniens china IMAGE-385064 F
9694	19245		1.44	4.完-01	4.5E-01 BF337531.1	EST HUMAN	602035275F1 NCI CGAP Brn64 Homo saniens cDNA clana IMAGE-4182201 5
9763			2.15	4.5E-01		N-	Homo saplens testis-specific kinase 2 (TESK2), mRNA
9974	19652	24987	1.83	4.5E-01	AF238234.2	LN LN	Entamoeba histolytica diaphanous protein (dia) gene partia cds
1991	11885		2.47	4.4E-01		٦	Mus musculus integral membrane associated protein 1 (Itmap1), mRNA
2340	12220	22118	, u	4 4E 01	4 4E 01 PA0785	TOGGGGWG	VASCULAR ENDOTHELIAL GROWTH FACTOR B PRECURSOR (VEGF-B) (VEGF RELATED
2774	13405	70000	300	7 17	4 45 64 4 50 500 4	DA POSTAGO	
3274		22995	66.0	4.4E-04	4.4E-01 AF 030/80.1	Z P	Native norwegicus SynGAP-b mRNA, complete cds
3277	L	22008	187	A AE-04	4 4E-04 RE056728 4	FOT UI BAAN	Manus increased Sylicating Confidences of the Confidence of the Co
4141	14041		1.33	4.4E-01	07.1	EST HUMAN	19 1002.31 NOT COMPLETE TO TO THOSE SERVICES CON COMPLETE STANDARD SERVICES AND MIGG. 44 Homo camians CONA clone INA CE SERVICES.
4924	14803		0.93	4.4E-01	96.1	EST HUMAN	MR0-HT0078-131299-007-406 HT0078 Hamo sapiens cDNA
5326	15246	25050	1.99	4.4E-01		SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
5326		25051	1.99	4.4E-01	4.4E-01 P04929	SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
5490		25474	1.3	4.4E-01	4.4E-01 S65019.1	NT	mucin [rats, Sprague-Dawley, sulfur-dioxide-treated tracheal epithelium mRNA Partial 300 mt]
5499	15418	25481	1.98	4.4E-01	4.4E-01 AV720408.1	EST_HUMAN	AV720408 GLC Homo saplens cDNA clone GLCCSC12 5
5624	15539	25627	1.6	4.4E-01	4.4E-01 AI198413.1	EST HUMAN	qi62h11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1861125 3' similar to TR:029168 Q29168 UNKNOWN PROTEIN
5624	16539	25628	1.6	4.4E-01	4.4E-01 Al198413.1	EST HUMAN	qi62h11x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1861125 3' similar to TR:Q29168 Q29168 UNKNOWN PROTEIN:
5782	15688	25798	1.79	4.4E-01	4.4E-01 AW080795.1	EST HUMAN	xc27e08.x1 NCI_CGAP_Co18 Homo sepiens cDNA clone IMAGE:2585510 3' similar to TR:095154 095154 AFLATOXIN B1-ALDEHYDE REDIJICTASE
6582	16462		10.84	4.4E-01	4.4E-01 Z11679.1	NT	S.tuberosum mRNA for induced stolon tip protein (partial)

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Skilgle Exon Propes Expressed in Heart	Top Hit Descriptor	ZINC FINGER X-CHROMOSOMAL PROTEIN	9039709.x1 NCI CGAP Lu5 Home sablens clone IMA GE-1043624 21	GLYCOPROTEIN B PRECURSOR (GLYCOPROTEIN 44)	TYROSINE-PROTEIN KINASE RECEPTOR TIE-1 PRECIDENDE	beta -HKA=H K-ATPase beta-suhuni frats. Genomin 8088 pt community of str	beta -HKA=H.K-ATPase beta-subunit frats, Genomic 8083 nt segment 2 of 2	Mus musculus sodium channel, tone X, alpha polymentide (Section), mBNA	Homo sabiens chromosome 21 segment HS210782	Autographa californica nucleonolyhedrovinis, complete genome	UV EXCISION REPAIR PROTEIN PROTEIN RAIDS HOMOLOG A MHIRPSTAN	Callithrix jacchus MW/LW opsin gene, upstream flanking region	Callithrix jacohus MW/LW obsin dene unstream flanking region	QV4-SN0024-200400-183-b01 SN0024 Homo sapiens cDNA	CM2-DT0003-010200-077-c01 DT0003 Homp septiens cDNA	MR0-BN0070-270300-008-q04 BN0070 Homo septems cDNA	Aquifex aeolicus section 30 of 109 of the complete genome	Human sometostatiin I gene and flanks	Callithrix jacchus MW/LW opsin gene, uostream flanking renim	Callitrix jacchus MW/LW opsin gene, upstream flanking region	Arabidopsis thaliana DNA chromosome 4. contin fragment No. 14	Xestia c-nigrum granulovirus, complete genome	Salmiri sciureus olfactory receptor (SSC186) gene, partial cds	Coturnix coturnix japonica ifnG gene	DNA GYRASE SUBUNIT B	602023134F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4158296 5'	Methanococcus voltae flagella-related protein C-I (flaC-flal) genes, complete cats	hh74e10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE-2968554 5:	hh74e10.y1 NCI_CGAP_GU1 Homo saplens cDNA clone IMAGE:2968554 5	xn63e05.x1 Soares_NHCeC_cervical_tumor Homo sapiens cDNA clone IMAGE:2698400 3' similar to	Equus caballus microsatellite FX027	RC3-BN0034-290200-013-c12 BN0034 Homo saniens c DNA	RC3-BN0034-290200-013-012 BN0034 Homo seniens cDNA	Streptomyces coelicolor whilit gene
JIE EXUIT PIO	Top Hit Database Source	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	N IN	N	F	PN PN	F	SWISSPROT	TN	¥	EST_HUMAN	EST HUMAN	EST_HUMAN	F	IN	Ę	N	N	TN	NT	NT		T_HUMAN		EST_HUMAN		EST HIMAN	F	EST HUMAN	Т	NT
1110	Top Hit Acession No.	062836	A1268650.1		25590	S76404.1	S76404.1	6677874 NT	2.2	9627742	54725	8.1	8.1	AW866550.1	4W935269.1	4W999477.1	8.1			3.1	22	5250		78.1		<u></u>			4.3E-01 AW630048.1	4.3E-01 AW170559.1				
.	Most Similar (Top) Hit BLAST E Vatue	4.4E-01 062836	4.4E-01 A1268650	4.4E-01 P28922	4.4E-01 P35590	4.4E-01 S76404.	4.4E-01	4.4E-01	4.4E-01 AL18328	4.4E-01	4.4E-01 P54725	4.3E-01 AF15521	4.3E-01 AF15521	4.3E-01 AW8665	4.3E-01 AW93526	4.3E-01 AW99947	4.3E-01 AE00069	4.3E-01 J00306.1	4.3E-01	4.3E-01	4.3E-01 AL161502	4.3E-01	4.3E-01	4.3E-01	4.3E-01 033367	4.3E-01 BF34800	4.3E-01 U97040.1	4.3E-01 A	4.3E-01 A	4.3E-01	4.3E-01	4.3E-01	4.3E-01 A	4.3E-01 AJ003022
	Expression Signal	1.29	1.99	2.45	4.67	1.33	1.33	2.29	3.29	5.34	1.76	1.98	1.98	1.1	96.0	0.93	1.53	1.15	1.02	1.02	1.11	1.06	3.04	3.86	4.01	2.54	2.83	1.65	1.65	1.27	2.64	1.98	1.98	2.02
	ORF SEQ ID NO:	27422	27798		27903	28025		25329		25224		20178		. 21350		22742		23737	20178	20179			25592	26064	+			27674	27675	27967	26195	28673	28674	
	_	17222		17574	17663	17785		18996		19267	19326	10351	_}			12950	13145	13961	10351	10351	14755	14929	15514	15933	12896	CCZQ1	16/8/	17459	1/458	17722	16049	18409	18409	19390
	Probe SEQ ID NO:	7354	7723	7724	7813	7935	7935	9236	9306	9731	9824	405	6	1585	2843	3022	3221	4029	4306	4306	4875	5059	2000	6202	2010	3	5060	909		7872	8302	8537	8537	9916

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	Top Hit Descriptor	CELL DIVISION PROTEIN FISH HOMOLOG PRECLIRSOR	nz24809.s1 NCI CGAP GCB1 Homo saniens cDNA clane MAADE-1088608 9	XWella fastidiosa, section 93 of 229 of the complete genome	d94b01.x1 Soares NhHMPu S1 Home seniens cDNA clone IMAGE-1870b48 21	QV0-LT0015-180200-127-h01 LT0015 Home seniens CDNA		RC5-BT0559-020300-013-E06 BT0559 Homo sapiens cDNA	nj69h01.s1 NCI_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997777 similar to gb:M33600 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN DR-1 RETA CHAIN (41 IMANN).	V77e01.r1 Soares Infant brain 1NIB Home seniens cDNA clone INACE 2022 6	601879721F1 NIH MGC 65 Home sapiens cDNA clone IMAGE-4108493 F	RC3-C10254-080400-029-004 CT0254 Homo saniens chNA	AU158472 PLACE2 Homo sapiens cDNA clone PLACE2000470 3'	AU158472 PLACE2 Homo sapiens cDNA clone PLACE2000470 3'	Broa1=breast cancer gene frats, WF, spleen. Genomic. 419 nt. semment 2 of 21	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 47	EST369413 MAGE resequences, MAGE Homo sapiens cDNA	EST369413 MAGE resequences, MAGE Homo sapiens cDNA	Homo sapiens cytochrome c oxidase subunit VIc (COX6C), nuclear gene encoding mitochondrial protein, mRNA	MR3-SN0010-280300-103-h07 SN0040 Home serviens - PN/A	Ovyzias latipes OIGC7 mRNA for membrane quantific oxclase commilete cite	601660352R1 NIH_MGC_71 Homo saplens cDNA clone IMAGE:3906085 3	DNA clone HTFBHH05 5	Homo saplens cDNA	DNA clone ADBAHF08 5'	DNA clone ADBAHF08 5	Homo sapiens cDNA	Homo sapiens anaphase-promoting complex subunit 7 (APC7), mRNA	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 36	Arabidopsis thaliana DNA chromosome 4, conto fragment No. 36	oj94b08.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:15059d3 রণ	Rhodococcus sp. AD45 isoG, isoH, isoI, isoA, isoB, isoC, isoD, isoE and isoF genes
Sirigle Exon Probes Expressed in Heart	Top Hit Database Source	SWISSPROT CELL DIVISION PROTEI	Г		T HUMAN	Τ	Г	Г		Т	Т	Γ	Т	EST HUMAN AU158472 PLACE2 Home	1	NT Arabidopsis thaliana DNA	EST_HUMAN EST369413 MAGE resequ	EST_HUMAN EST369413 MAGE resequ		T HUMAN	Т	Г			EST_HUMAN AV705243 ADB Homo sapiens cDNA clone ADBAHF08 5	Г	EST_HUMAN PM-BT103-270499-684 BT103 Homo sapiens cDNA				EST_HUMAN 0j94b08.s1 Soares_NFL_T	
Sirig	Top Hit Acession No.	4.2E-01 Q39102	33.1			17		-1	4.2E-01 AA534093.1	Γ			17	4.2E-01 AU158472.1 E		7.2		4.2E-01 AW957448.1 E	TN 658039	AW863666.1							4.1E-01 Al905949.1	7705283 NT		4.1E-01 AL161536.2 NT		4.1E-01 AJ249207.1 N
	Most Similar (Top) Hit BLAST E Value						1 4.2E-0												9 4.25-01													
	Expression Signal	1.04	0.89		1.09	0.96		3.63	4.96	3.13	1.5	1.56	9.1	9.1	2.1	"	2.1	2.1	1.19		22	2.04	1.66	1.88	2.4	2.4	1.03	1.52	1.76	1.76	1.13	2.59
	ORF SEQ ID NO:	21099		23263		23503			24273	24350	25484	25518			26219	26233	26739	26740	26844	28084		28799		20835	20844	20845	21356	22434	22633	22634	22985	23852
	Exon SEQ ID NO:	12691	11800	13472	13499			14438	14487	14557				_	[16543	16655	17842	18276	18517	19353	10994	11003	11003	11496	12543	12836	12836	13186	14077
	Probe SEQ ID NO:	1335	1904	3558	3585	3803	3900	4545	4599	4671	5503	5533	6151	6151	6184	6217	6663	6663	6776	7992	8400	8699	9863	1078	1087	1087	1592	2678	2910	2910	3263	4177

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Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Top Hit Descriptor	vo 11503 s.1 Soares infant brain 1NIR Homo seniens PNA Ame 144005-34944.2	AV747880 NPC Homo sagiens cDNA close NPCRDF40 51	Bacillus subtilis complete genome (section 21 of 21): from 3000281 to 421 4814	602156590F1 NIH MGC 83 Home saciens cDNA clone MAGE-4207446 47	Methanococcus jannaschii section 77 of 150 of the complete genome	602133261F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4288238 5'	Mus musculus stanalina intermediate in Toll nathwavasanhidanosity amorana / Ois.	Campylobacter Jejuni NCTC11168 complete genome: segment 3/6	CM2-HT0137-200999-010-e08 HT0137 Home saniens cDNA	Zea mays ZMPMS2 gene for 19 kDa zein protein	VOLTAGE-GATED POTASSIUM CHANNEL PROTFIN KV/1 1 (HI IKI) (HRK1)	Homo sapiens DNA for amyloid precursor protein, complete cds	Laqueus rubellus mitochondrion, complete genome	Drosophila melanogaster Dalmatian (dmt) mRNA, complete cds	Mus musculus platelet derived growth factor receptor, beta polypeptide (Pdofrh), mRNA	Ascobolus immersus masc2 gene	Ascobolus immersus masc2 gene	Mus musculus ubiquitin-protein ligase e3 componen n-recoonin (Libra) mRNA	Homo sapiens chromosome 21 segment HS21C080	Homo saplens chromosome 21 segment HS21C080	Streptococcus pneumoniae YIIC (yiIC), YIID (yiID), penicillin-binding protein 2x (pbp2x), and undecaprenyl-	phosphate-UDP-MurNAc-pentapeptide phospho-MurNAc-pentapeptide transferase (mray) genes, complete cds	Ovis aries partial JD2 gene for T cell recentor delta chain (TCRD I2) even 1	Ovis aries partial JD2 gene for T cell receptor delta chain (TCRD I2), exen 1	NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 5 CHI OROPI AST	EST382691 MAGE resequences, MAGK Homo saplens cDNA	Synechocystis sp. PCC 9413 transposase gene, complete cds	Homo sapiens chromosome 21 segment HS21C100	HYPOTHETICAL 49.7 KD PROTEIN IN GINZ-STE3 INTERGENIC REGION	Campylobacter jejuni NCTC11168 complete genome; segment 2/6	CM4-HT0136-150999-014-f09 HT0136 Homo saplens cDNA	Gorilla gorilla carboxyl-ester lipase (CEL) gene. complete cds
ressed in Heart	Top Hit Descriptor	s1 Soares infant brain 1NIR Homo saniane 20NA Alme	0 NPC Homo sepiens cDNA done NPCBDF40 5'	ubtilis complete genome (section 21 of 21): from 39997	30F1 NIH MGC 83 Home sabiens cDNA clone IMAGE	occus jannaschii section 77 of 150 of the complete gen	31F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE	culus signaling infermediate in Toll native exemitiment	acter leiuni NCTC1168 complete genome: segment 3	1137-200999-010-e08 HT0137 Homo saniens CDNA	ZMPMS2 gene for 19 kDa zein protein	E-GATED POTASSIUM CHANNEL PROTEIN KV11	viens DNA for amylold precursor protein, complete cds	ubellus mitochondrion, complete genome	a melanogaster Dalmatian (dmt) mRNA. complete cds	culus platelet derived growth factor receptor, beta polypi	s immersus masc2 gene	s immersus masc2 gene	culus ubiquitin-protein ligase e3 componen n-recognin (viens chromosome 21 segment HS21C080	ilens chromosome 21 segment HS21C080	ocus pneumoniae YIIC (yIIC), YIID (yIID), penicillin-bindl	9-UDP-MurNAc-pentapeptide phospho-MurNAc-pentap	partial JD2 gene for T cell recentor delta chain (TCRD	partial JD2 gene for T cell receptor delta chain (TCBD)	ASTOQUINONE OXIDOREDUCTASE CHAIN 5 CHI	31 MAGE resequences, MAGK Homo saplens cDNA	ystis sp. PCC 9413 transposase gene, complete cds	iens chromosome 21 segment HS21C100	ETICAL 49.7 KD PROTEIN IN GINZ-STE3 INTERGE	acter jejuni NCTC11168 complete genome; segment 2/	136-150999-014-f09 HT0136 Homo saplens cDNA	illa carboxyl-ester libase (CEL) gene complete cde
Exon Probes Exp	Top Hit Database Source	EST HUMAN w11b03	Г	Т	EST HUMAN 6021565	Т	EST_HUMAN 6021332	Musmus	Campylo	EST HUMAN CM2-HT	Г	SWISSPROT VOLTAC	Γ	Laqueus	Drosophi	Mus mus	Ascobolu	Ascobolu	Mus mus	ното за	Homo sa	Streptoco	phosphat	Ovis aries	Ovis aries	П		T	Homo sa	SWISSPROT HYPOTH		EST_HUMAN CM4-HTG	Gorilla go
Single	Top Hit Acession E. No.							675521 NT	139076.2 NT					8404656	203478.1 NT	6679258 NT	3933.1 NT		6678490 NT	63280.2 NT	163280.2 NT		068903.1 NT	Ξ	-:		0.1		63300.2 NT				206618.1 NT
-	Most Similar (Top) Hit To BLAST E Value	4.1E-01 R41726.1	4.1E-01 AV747880.1	4.1E-01 Z99124.1	4.1E-01 BF681393.1	4.1E-01 U67535.	4.1E-01 BF574604.1	4.1E-01	4.1E-01 AL13907	4.1E-01 BF349382.1	4.1E-01 X58700.1	4.1E-01 Q09470	4.1E-01 D87675.	4.0E-01	4.0E-01 AF20347	4.0E-01	4.0E-01 Z96933.1	4.0E-01 Z96933.1	4.0E-01	4.0E-01 AL16328(4.0E-01 AL163280		4.0E-01 AF068903	4.0E-01 AJ27751	4.0E-01 AJ27751	4.0E-01 Q31849	4.0E-01 AW97061	4.0E-01 L76080.1	4.0E-01 AL163300	4.0E-01 P36049	4.0E-01 AL139075	3.9E-01 AW352188.1	3.9E-01 AF206618
	Expression Signal	0.83	1.26	0.87	4.13	291	1.3	1.23	1.3	1.58	164	279	1.72	1.27	0.96	4.06	1.17	1.17	1.09	2.24	2.24		1.61	3.24	3.24	7.34	1.31	3.24	2.22	1.33	1.4	1.59	21
	ORF SEQ ID NO:		24247		25650		26757	27323			28349	28121		. 20783	21079		21742	21743	19931	22865	22666		23339	23451	23452		25596				1	20007	21119
	Exon SEQ ID NO:	14269	14459	15049	15557		16563	17130	17738	17868	18097	17880	19702	10940	11223	11374	12709	12709	10110	12866	12866		13551	13668	13668	14598	15517	18766	19567	19327	19387	10196	11262
	Probe SEQ ID NO:	4373	4567	5185	5644	6395	6683	7253	7888	8018	8213	9698	9624	1023	1316	1469	1960	1960	2774	2939	2939		3637	3755	3755	4712	5603	8929	9312	9825	9910	722	1356

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The Later La	Top Hit Descriptor	Homo sapiens mRNA for KIAA1193 protein, partial cds	H. saplens B-mvb dene	H. saplens B-myb gene	Sinorhizoblum melitoti eqi, svrB2, cva3 genes and orr3	7761401.x1 NCI CGAP Br16 Homo septems cDNA clone IMAGE 33301603	601563948F1 NIH MGC 20 Homo saniens cDNA clone MARCE 3833600 F7	601862362F1 NIH MGC 53 Homo sapiens cDNA clane IMAGE:4082055 5	xn86d04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701351 3' similar to TR:094821 094821 KIAA0713 PROTEIN	Wp76a02.xt NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2467658 3' similar to SW:RFX5 HUMAN PARSAS BINDING PEC!!! A TORN EACTOR	Human dahindin 27 nena eyons 10 and 11 and 11 man All manual.	AV695974 GKC Home seriene CDNA Agne CK PDOC44 E	Homo sapiens proteoglycen 3 (PRG3) gene, complete cds	HOMEOBOX PROTEIN HI X1	Thermotoga maritima section 123 of 136 of the complete genome	Homo sabiens protein kinase PKNhera (nknhera) mRNA	Xyella fastidiosa, section 16 of 229 of the complete genome	Arabidopsis thallana putative c-mvh-like transcription factor (AAVR3B 3) mDNA	Mus musculus solute carrier family 1. member 6 (Sir1a6) mRNA	Human immunodeficiency virus type 1 complete crenome (isolate 98SE MID4243)	Pleuronectes americanus aminopeptidase N (ampN) gene nartial cals	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 30	w/38b/12xf Soares NFL T GBC S1 Homo sapiens cDNA clinne IMAGE: 2957855 of	W38b12x1 Soares, NFL T GBC S1 Homo seniens cDNA clone IMAGE: 2357866 21	Mus musculus general transcription factor II I (CH2) mRNA	601074110F1 NIH MGC 12 Homo saniens cDNA clane IMAGE: 3460454 F	TRANSCRIPTION FACTOR SOX-10	QV3-BT0537-271299-049-e02 BT0537 Homo sapiens cDNA	ta54f11.x1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:2047917 3' similar to	Ministralins none for kellippin hinding model.	Homo sepiens mRNA for KIAA1631 protein, partial cds
200	Top Hit Database Source	ĮN.	N	N	N.	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Z	EST HUMAN	N	SWISSPROT	Z	Ā	N _T	N	Z	Ν	Z	N.	EST_HUMAN	EST_HUMAN	Z	EST HUMAN	SWISSPROT	EST_HUMAN	MANUEL FOR	N LOWER	NT
	Top Hit Acessian No.	3.9E-01 AB033019.1	3.9E-01 X82032.1		3.9E-01 AJ225896.1		BE728667.1	3.9E-01 BF208036.1	3.9E-01 AW195888.1	3.9E-01 Al937337.1	3.9E-01 M19879.1	1			Ξ	7019488 NT	3.8E-01 AE003870.1	3.8E-01 AF214117.1	6678002 NT		3.8E-01 AF043383.1	3.8E-01 AL161518.2	1807219.1	N807219.1	6754095 NT	3.8E-01 BE544653.1		99.1	Ţ		1.1
	Most Similar (Top) Hit BLAST E Value	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01	3.9E-01 Q61670	3.9E-01 AE00181	3.8E-01	3.8E-01	3.8E-01	3.8E-01	3.8E-01 AJ251057	3.8E-01	3.8E-01	3.8E-01 AI807219.	3.8E-01 A1807219.	3.8E-01	3.8E-01	3.8E-01 Q04888	3.8E-01	3 8E-01 A1374601	3.8E-01 X61597.1	3.8E-01 AB046851
	Expression Signal	3.54	5.98	5.98	3.63	1.47	1.48	3.63	1.5	1.4	2.97	2.22	2.49	2.38	1.26	7.44	1.22	2.44	4.41	0.92	2	77.77	0.79	0.91	0.85	0.98	1.62	4.47	3.84	4.83	3.07
	ORF SEQ ID NO:				22776			25611	27400	27581	27755				25328			22289	22352		22732	23160			23545	24692	25422	26023	26177		27052
	Exon SEQ ID NO:							15528	17200	17372	17530	18080		18940		10128		_ 1	_						13752	14918	15366	15899	16036	16299	16857
	Probe SEQ ID NO:	2605	2673	2673	3058	3988	4919	5613	7324	7503	7680	8195	9091	9209	9288	154	1827	2524	2591	2972	3010	3438	3494	3206	3841	5046	5445	5994	6053	6438	0869

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Single Exon Probes Expressed in Heart

					;	יייו ווייאין טופּוּ	Chigas Explicased III nealt
Probe SEQ (D NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acesslan No.	Top Hit Database Source	Tap Hit Descriptor
7516			4.11	3.8E-01	3.8E-01 T95413.1	EST HUMAN	ye43h06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120539 6' similar to contains. Au repetitive element-contains PTRS pareliting closured.
8820			2.82	3.8E-01	3.8E-01 BE719219.1	EST HUMAN	RO-HT0841-040800-032-h12 HT0841 Home content of the
8939				3.8E-01	R42550.1	EST HUMAN	V92h11.s1 Soares Infant brain 1NIB Homo earliens CONA chara IMA CE consocial
8939	18747	29042		3.8E-01	3.8E-01 R42550.1	EST HUMAN	V92n11.51 Scares infant brain 1NIR Homo senions CDNA clone INA CE conco or
9297			2.38	3.8E-01	3.8E-01 AE001124.1		Borrella burgdorferi (section 10 of 70) of the cymplete genome
9422			1.34	3.8E-01	3.8E-01 U94788.1	Ι	Human p53 (TP53) gene, complete cite
9530			2.21	3.8E-01	3.8E-01 BE829256.1	EST HUMAN	QV3-ET0063-190700-271-a05 ET0063 Home serviers CONA
9917	19638		1.84	3.8E-01	3.8E-01 AF291483.1		Mus musculus vomeronasal recentor V1RA4 (V1ra4) nene complete colo
9921			1.37	3.8E-01	3.8E-01 T54787.1	EST HUMAN	942b11.s1 Stratagene fetal spiese (#937205) Homo sapiens cDNA clone IMAGE:73821 3' similar to similar to ob:A06977 SERUM AI RUMIN PRECIDED AUTOMAN
9937	19406	25180	1.3	3.8E-01	3.8E-01 AF194972.1	F	Mus musculus developmental control molein mRNA martial and
9970	19430	25151	1.33	3.8E-01	3.8E-01 AA776820.1	EST HUMAN	ah37b01.s1 Soares_testis_NHT Homo sapiens cDNA clone 1291657 3' similar to TR:Q15288 Q15288 NO DISTINCTIVE PROTEIN MOTIES
2431		22203	9.85	3.7E-01	3.7E-01 AB037831.1	L	Homo sabiens mRNA for KIAA1410 mortial ode
3414		23133	9.48	3.7E-01,	3.7E-01 AF056336.1	Į.	Danjo rerio bone morphorenefic protein 4 previnces / DANDA
4136		23812	6.63	3.7E-01,	3.7E-01 AI218707.1	EST HUMAN	ok39c07.x1 Spares NSF F8 gW/ OT DA D c4 Library Child III III III III III III III III III I
4225		23898	1.53	3.7E-01,	3.7E-01 AW878037.1	EST HUMAN	MR3-010007-080300-104-h02 010007 Home caries and a colvid done IMAGE:1510188 3
4292	14190	23974	3.32	3.7E-01	3.7E-01 AE002408.1	N-	Neisseria meninditidis servaron B strain MCSs sociate 5 2006 4 4.
6235		26250	2.73	3.7E-01	11525843 NT	N	Homo sabiens tumor endothelial marker 7 preminer (TEMA) - DNA
6392	_	26415	4.51	3.7E-01	3.7E-01 BE873743.1	EST HUMAN	601483887F1 NIH MGC 69 Home seriens 20NA Alma MA OCTOBER 2
6392		26416	4.51	3.7E-01	-	Т	601483887F1 NIH MGC 69 Homo saplens cONA clone IMA CE 2886662 5
6848		26921	2.34	3.7E-01	11436739 NT		Homo sapiens chromosome 12 open reading frame 4 (C120RE4) mbn/A
6848		26922	2.34	3.7E-01	11436739 NT	NT	Homo sapiens chromosome 12 open reading frame 4 (C120RE4) mRNA
/301			1.46	3.7E-01	1	N	Gallus gallus mRNA for beta-carotere 15.15-dimmenasa (A-ChO)
7864		27958	3.93	3.7E-01		EST HUMAN	146b07.x Soares fetal ling Nh-II 10W Home emission (NDL) 941e0
8232	I	28365	1.81	3.7E-01 X05958.1			Rabbit mRNA for fast skeletal muscle americ bond and the content of the content o
8392		28518	2.66	3.7E-01	3.7E-01 AJ297357.1		Homo sapiens partial LIMD1 dene for I IM domains containing assets.
8392		28519	2.66	3.7E-01	-		Homo sapiens partial LIMD1 dene for I IM domains containing models 1 and NAAV831 gene
8762		28155	4.23	3.7E-01 X04122.1		Ę	Bovine mRNA for terminal deoxymucleority/difference (T4T/CC 9.2.2.4.
8979			2.78	3.7E-01	B877678		Mus musculus retinoblastoma 1 (Rh1) mRNA
8006	. {		1.87	3.7E-01 J04982.1		Ę	Human heart/skeletal muscle A TP/A DP transforement (ANTA) wone
9176			1.94	3.7E-01 ▶	1.3		Chlamydophila psittaci partial omot gene for outer membrane protein 4
9272	18976		2.41	3.7E-01 D86976.1			Human mRNA for KIAA0223 dene, partial cals
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						מו ביוסעין פונה	Single Explication of the second of the seco
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	. Top Hit Descriptor
9634	19206		2.18	3.7E-01	3.7E-01 AL121154.1	EST HIMAN	DKF2n7R9K075 rd 7R9 (suncomm: hmg/2) Llome consisted (2014)
9701	19251	25217	1.52	3.7E-01	3.7E-01 Y18000.1	Z	Homo sapiens NF2 dene
9964	19746		1.31	3.7E-01	3.7E-01 AJ237834.1	F	Bos faurus partial stat58 gene exons 2-15 and Johned CDS
979			7.17	3.6E-01		F	Human mibb dene, partial cols
1292			2.59		3.6E-01 T80255.1	EST HUMAN	yd03e05.r1 Soares infant brain 1NIB Homo sabiens cDNA clone IMACE: 24443 F
1292	_1		2.59	3.6E-01	3.6E-01 T80255.1	EST_HUMAN	yd03e05.r1 Soares Infant brain 1NIB Homo saplens cDNA clone IMA GE-24443 F
1874	$_{\perp}$		6.05	3.6E-01	3.6E-01 AW590184.1	EST_HUMAN	hg33f02x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE-2947419 3'
1874	_		9.05	3.6E-01	3.6E-01 AW590184.1	EST HUMAN	hg33f02x1 NCI_CGAP_GC6 Homo sapiens cDNA clane IMAGE: 2047440 2
1908		21682	6.18	3.6E-01	3.6E-01 AF216207.1	Ę	Mus musculus ribosomal protein S19 (Ros19) gene complete cols
2007			1.08	3.6E-01	3.6E-01 AF056927.1	F	Rattus norvedicus repeat element associated with the Recent Acons
2223			1.04	3.6E-01	3.6E-01 AB002321.1	Į.	Human mRNA for KIAA0323 dene, perijel ods
2341			2.39	3.6E-01	3.6E-01 X76725.1	Ę	P. Irregulare (P3804) gene for actin
2437	12314	22211	1.සි	3.6E-01	3.6E-01 AW812033.1	EST_HUMAN	RC5-ST0171-181099-011-q07 ST0171 Homo sapiens cDNA
							PROTEIN L-ISOASPARTATE O-METHYLTRANSFERASE (PROTEIN-BETA-ASPARTATE
2589	12460	22350	2.28	3.6E-01	3.6E-01 P24206	SWISSPROT	METHYLTRANSFERASE) (PIMT) (PROTEIN L-ISOASPARTYL METHYLTRANSFERASE) (L-ISOASPARTYL PROTEIN CARROXYI METHYLTRANSFERASE)
2869	15077		8.9	3.6E-01	3.6E-01 AF199485.1	Z	Drosobilla melanoraster energe transporter 2 June 1
3424	13341	23145	1.85	3.6E-01		N	H. Sableh's serotonin transporter dene exme 0 and 40
3424		23146	1.85	3.6E-01		N I	H. sabians serotonin transnorter cene evons 0 and 10
4308		23988	1.16	3.6E-01	3.1	EST HUMAN	RC1-HT0545-150600-014-b12 HT0545 Home capiene chiva
4635	_	24312	0.85	3.6E-01	2	LN	Brassica napus mRNA for MAP4K alpha? mntein
4684	14570	24367	1.23	3.6E-01		F	Bacteria from anoxic bulk soil 16S rRNA gene (strain XR45)
4941	14819	24587	2.01	3.6E-01	3.1	EST_HUMAN	ha02g04.x1 NCI_CGAP_Lu24 Homo sapiens cONA clone IMAGE-2872558.3
6680	- 1	25928	1.6	3.6E-01		K	Homo saplens PHEX gene
6238	16104		5.49	3.6E-01	3.6E-01 R94090.1	HUMAN	W74a06.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGF-275ga7 5
6317		26340	1.66	3.6E-01	3.6E-01 AW027174.1	EST HUMAN	wt72c10.xt Soares_thymus_NHFTh Homo sapiens cDNA clone IMAGE:2513010 3' similar to TR:015117
6816	16695	26886	13.42	3.6E-01		N F	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 79
7205	17082	27269	3.37	3.6E-01	4504956		International International
7005							organical special resociated membrane protein 2 (LAMP2), transcript variant LAMP2A, mRNA
0002	Т	2/2/0	3.37	3.6E-01	504956		Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), transcript variant LAMP2A, mRNA
7677	1	27380	1.4	3.6E-01	74.2		Homo sapiens chromosome 21 segment HS21C004
/0/4	1/524	27750	15.34	3.6E-01 Q53194		SWISSPROT	PROBABLE PEPTIDE ABC TRANSPORTER ATP-BINDING PROTEIN Y4TS

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17213 24452 1.24 3.5E-01 BE146585.1 EST_HUMAN 14675 24462 0.84 3.5E-01 N81203.1 EST_HUMAN 14730 24513 3.84 3.5E-01 M18349.1 NT 1559 3.47 3.5E-01 X98605.1 NT 1768 27238 3.21 3.5E-01 4507610 NT 1763 27764 5 3.5E-01 226825.1 NT 1800 28251 2.99 3.5E-01 X81084.1 NT 18263 28513 2.34 3.5E-01 A243478.1 NT 18263 28514 2.34 3.5E-01 A243478.1 NT	Probe SEQ ID NO: NO: 8463 8463 9044 9127 9281 9281 708 768 768 763 1603 1603 1603 1603 763 763 763 763 763 763 763 763 763 76	Exon SEQ ID NO: 18326 19761 19761 19764 10596 10694 11508 12725 12537 14065	ORF SEQ ID NO: 28440 28585 28134 20414 20467 20467 20467 20467 21384 21384 22327	Expression Signal 3.69 3.69 3.69 3.03 3.05 3.03 3.05 3.05 3.05 3.05 3.05	Most Similar (Top) Hit BLAST E Value 3.6E-01 3.6E-01 3.6E-01 3.6E-01 3.6E-01 3.5E-01 3	Top Hit Aces No.	Top Hit Database Source Source Source EST HUMAN NT	Top Hit Details EXpressed in Hearf Top Hit Descriptor Source Source Source Source Source Source Source FEST HUMAN Mathanobasterium thermocautiorphicum from sepiens cDNA clone IMAGE:3968997 6 NT Arabidopsis theliana mRN4 for SigB, complete cds NT Homo sepiens bHb5 gene for hair learanth, exors 1 to 9 NT Homo sepiens the Source and Source
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16584 1.88 3.5E-01 11448042 NT 17048 27238 3.21 3.5E-01 4507610 NT 17463 2764 5 3.5E-01 202294 SWISSPROT 17538 27764 5 3.5E-01 Z02294 SWISSPROT 18005 28251 2.99 3.5E-01 X61084.1 NT 18263 28513 2.34 3.5E-01 AJ243178.1 NT 18263 28514 2.34 3.5E-01 AJ243178.1 NT	6199	Li		3.47	3.5E-01	X98505	NT	S. scrofa mRNA for CD31 protein (PECAM-1)
17048 27238 3.21 3.5E-01 4507610 NT 17463 27680 1.51 3.5E-01 202294 SWISSPROT 17538 27764 5 3.5E-01 Z2825.1 NT 18005 28251 2.99 3.5E-01 X61084.1 NT 18263 28513 2.34 3.5E-01 AJ243178.1 NT 18263 28514 2.34 3.5E-01 AJ243178.1 NT	6704			1.88		-	NT.	Homo sepiens tumor protein p53-binding protein, 2 (TP53BP2), mRNA
17638 27680 1,51 3.5E-01 Q02294 SWISSPROT 17538 27764 5 3.5E-01 Z26825.1 NT 18005 28251 2.99 3.5E-01 X61084.1 NT 18263 28513 2.34 3.5E-01 AJZ43178.1 NT 18263 28514 2.34 3.5E-01 AJZ43178.1 NT	7171		27238	3.21	3.5E-01		NT	Homo saplens tyrosine kinase non-receceptor 1 (TNK1), mRNA
17538 27764 5 3.5E-01 Z26825.1 NT 18005 28251 2.99 3.5E-01 X61084.1 NT 18263 28513 2.34 3.5E-01 AJ243178.1 NT 18263 28514 2.34 3.5E-01 AJ243178.1 NT	7612	l	27680	1.51	3.5E-01	Q02294	SWISSPROT	VOL I AGE-DEPENDENT N-TYPE CALCIUM CHANNEL ALPHA-1B SUBUNIT (CALCIUM CHANNEL, L TYPE, ALPHA-1 POLYPEPTIDE ISOFORM 5) (BRAIN CALCIUM CHANNEL III) (RIII)
18263 28514 2.34 3.5E-01 AJ243178.1 NT 18263 28514 2.34 3.5E-01 AJ243178.1 NT	7688	17538	27764	CJ.	3.5E-01	Z26825.1	TN	Xlaevis gene for albumin including HP1 enhancer
18263 28514 2.34 3.5E-01 AJ243178.1 NT	8116		28251	2.99	3.5E-01	X61084.1	IN	C.griseus rhodopsin gene for opsin protein
18263 28514 2.34 3.5E-01 AJ243178.1 NT	8386		28513	2.34	3.5E-01	AJ243178.1	F	Gallus gallus SPARC gene for osteonectin, promoter and expn 1
	8386	ı	28514	2.34	3.5E-01	AJ243178.1	TN	Gallus gallus SPARC gene for osteonectin, promoter and exon 1

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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	GALECTIN-3 (GALACTOSE-SPECIFIC LECTIN 3) (MAC-2 ANTIGEN) (IGE-BINDING PROTEIN) (35 K LECTIN) (CARBOHYDRATE BINDING PROTEIN 35) (CBP 35) (LAMININ-BINDING PROTEIN) (LECTI L-29) (CBP30)	ob71402.s1 NCI CGAP GCB1 Home seniens cDNA clone IMACE: 1026950 31	Rhizobium leguminosarum svm plasmid pRi 5.11 modX nene	Homo sapiens aldehyde oxidase 1 (AOX1) mRNA

 | EST369264 MAGE resequences, MAGD Homo servious ADNA | Bohrdis cineras shain T4 cDNA library index amplitions of the
 | 601868804F1 NIH MGC 17 Home caniers contained in MA CE 1111112 | Mus musculus Phylynothed 1 homeshow (Plance) - Blance (Blance) - B | Homo sapiens promyelocytic leukemie zion financiantaja (m. 175)

 | Humam h NAT allele 3-2 dene for anylamine Nachadranetersco | Arabidoosis thaliana DNA chromosome 4 continuosome No. 46 | Rabbit beta-like globin gene cluster encoding the epsilon, gamma, delta (pseudogene) and beta globin polypeptides, complete cds |
 | Informo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene | ATTECHNETICAL 81.7 KD PROTEIN C13G7.04C IN CHROMOSOME I PRECURSOR | WZUG 197 ZFT NIT MICE 81 Hamo sapiens cDNA clone IMAGE:4246505 5 | Mouse remin (ren-1-d) gene, complete cds | Tround septembring the suburit (LL12B) gene, IL12B-1 allele, complete cds
 | Pol ICA attial and a series of the series of | That is contained from years, complete cas | 1. Septembre 1991 in High India activation in acceptor (AChR) alpha subunit exons 8, 9 and 3' flanking region 601897107F1 NIH MGC_19 Homo sapiens cDNA clone IMAGE-4126833 5 | C CCCCTL TOTAL COLOR |
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| Expression
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 | 23977 | 24052 | 24077 | - | | 24771
 | 24913 | 26819 | 26946 | 26951 | |
| Exon
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 | 11645 | 11698
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 | 14193 | 14271 | 14293 | 14520 | 15081 | 15000
 | 15146 | 16631 | 16751 | 16754 | |
| Probe
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Table 4
Single Exon Probes Expressed in Heart

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Table 4
Single Exon Probes Expressed in Heart

Single Exoli Flobes Expressed in Heart	Top Hit Dafabase Source	Homo sepiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,	complete cds; and L-type calcium channel a>	Mus musculus protein kinase C, epsilon (Pkce), mRNA	Homo sapiens Xq pseudoautosomal rection: seement 1/2	1	Т		Composition of NV 4 of DC 2000 1. Single Subunit mRNA, 3' untranslated region	Por processing sp. ref. 1 agr. 9 gete to loggitudorate lyase, complete cds HIMAN PMI-STORE 28410D-001-001 STORES 10 FINE	Т	IMAN GOTGEOGREE NIM MAGE DAMP continue CINIT BLACK	Т	Т	Т	Mouse expokeratin 15 game commiste and	Mus musculus midnojin (Midnamanina) mBNA	Streptococcus pneumoniae strain DBL5 PsnA (psnA) nene martial ces	Thermotoga maritima section 67 of 136 of the complete canonic	Mus musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9 (Clessf9), mRNA	Т	Π	Т	1	Т	Mus musculus ribose 5-phosphate isomerase A (Reis) mBNA	Aquifex secilion 58 of 109 of the complete cannot be	Chrysodidymus synuroideus mitochandrian, complete genome	Xenopus laevis franscribtion factor E2F mRNA complete cds	1
or algue	Top Hit Acession Data No. So.		I.130//9:1	6755083 NT	3.0E-01 AJ271735.1 NT	3.0E-01 AW300400.1 EST HL	3.0E-01 AJ006755.1 NT	AE237778 1 NT	-	5.1 EST	5	-		EST	Z		10947007 NT	F071810.1 NT	3.0E-01 AE001755.1 NT	9910161	3.0E-01 BE566083.1 EST HUMAN		51029.1 EST HUMAN		-	67776	E000736.1 NT			
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Page 53 of 413 Table 4 Single Exon Probes Expressed in H

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Single Exon Probes Expressed in Heart	Тор Hit Descriptor	p2/a11.x1 NCI_CGAP_Gas4 Homo sapiens cDNA done IMAGE:2188412 3' similar to gb:D15050 NIL-2.A ZINC FINGER PROTEIN (4! IMAN) rooteins element 1.4 per effects of the contraction of the co	wn02f10.x1 NCI_CGAP_GC6 Home sapiens cDNA clone IMAGE 2480308 2	2s57d12.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:701591 5' similar to contains Alu repetitive element	Mus musculus SKD1 (Skd1) nene complete cels	Mus musculus SKD1 (Skd1) gene complete ede	Mus musculus cene complete de similar to EVI M4	V77e12.s1 Sogres Infant brain 1NIB Home saplens CONA clare INVACE coord of	B.subtills levanase operon lev0, levE, levF, leve and sacC (partial) genes for fructose phosphotransferase system bolyneptides P16.18 28.30 and levanase	B.subtilis levanase operon levD, levE, levF, levG and sacC (partial) genes for fructose phosphotransferase	system polypeptides P16,18,28,30 and levanase	Mus musculus Eph receptor A8 (Epha8), mRNA	Bos taurus myosin I mRNA, complete cds	Mus musculus Filih protein (Filih) gene, complete cds; and Ligh protein (Ligh) gene, partial ads	PUTATIVE MULTICOPPER OXIDASE YDR506C	Mus musculus major histocompatibility locus class II region; Fas-binding protein Dax (DAXX) gene, partial cds; Bing1 (BING1), tapasin (tapasin), RalGDS-like factor (RLF), KE2 (KE2), BING4 (BING4), beta1, 3-	galactosy transferase (beta1,3-galactosy tr>	SOURCEST IN IN TAIL MCC_ TO HOMB SEPIERS CUNA CIONE IMAGE:3462287 5	Transparence of the Land of the Life of th	Topedo californica mRNA amordina contrato glycoprotein gp82 (gp82) mRNA, partial cds	Topedo californica mRNA encodina acendonima receptor gamma subumit	ny35h02.s1 NCI_CGAP_Pr12 Homo sepiens cDNA clone IMAGE:1273779 similar to contains LTR8.t2 LTR8	Campylobacter jeluni NCTC11168 complete genome: serment 5/8	wz88f05x1 NCI_CGAP_Bm25.Homo sapiens cDNA clone IMAGE:2565921 3' similar to contains element	Michael Special Special Control of the Control of t	Solito Septens 1111 Pari naucipie ruva binding protein (TIRP) gene, complete cas	Chlamydomonas reinhardiii mRNA for nitrila radiichese structural Icanii	Chlamydomonas reinhardii mRNA for nitrite reductase structural locus
gle Exon Pro	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	NT	¥	Z	EST HUMAN	L		5	Į.	NT	M	SWISSPROT	<u>t</u>	NI FOT LUMAN	EST HIMAN	TN	Į.	NT.	EST HIMAN	N-	TOT LIMBAN	NEW PLAN	T HUMAN		
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	Expression Signal	1.28	0.82	1.01	0.78	0.78	0.92	1.49	4.45		4.40 60 1	3.0	47.7	1.51	2.52	4 74	1.76	1.76	1.96	269	2.69	1.77	4.54	1 53	274	1.33	4.86	4.86
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	Exon SEQ ID NO:	13733	13901	14280	14284	14284	14615	15141	15440	45440	1544B	15724	10/64	15128	200	16115	16499	16499	18147	18375	18375	18676	18678	19127	19184	19212	19367	19367
	Probe SEQ ID NO:	3821	3994	4384	4388	4388	4729	5218	6522	2500	5520	5818		2/2	07.10	6249	6619	6619	8267	8502	8502	8864	8866	9514	9602	9644	9883	9883

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Table 4
Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Exon ORF SEQ Expression (Top) Hit Acession ID NO: Signal BLASTE No. Source Source	1.84 2.8E-01 U67136.1 INT Rattus norvegicus A-kinase anchoring protein AKAP150 mRNA complete cdc	20828 2.47 2.8E-01 AF168050.1 NT	1.1 2.8E-01 BE313442.1 EST HUMAN	1.1 2.8E-01 BE313442.1 EST HUMAN	21025 1.01 2.8E-01 D86550.1 NT	159 21470 1.55 2.8E-01 AW860020.1 EST HUMAN QV1-CT0384-120200-065-b05 CT0364 Homo saniens cDNA	21750 1.77 2.8E-01 AL047620.1 EST_HUMAN	21869 1.47 2.8E-01 AW511195.1 EST_HUMAN	22197 2.94 2.8E-01 AE000494.1 NT	22198 2.94 2.8E-01 AE000494.1 NT	2.47 2.8E-01/AL161565.2 NT	22388 1.37 2.8E-01 AB020975.1 NT	1.49 2.8E-01 AF179480.1 NT	22667 2.48 2.8E-01 Z14037.1 NT	22668 2.48 2.8E-01 Z14037.1 NT	23057 1.1 2.8E-01 AP000004.1 NT	23604 1.75 2.8E-01 AE001180.1 NT	2.21 2.8E-01 A1090868.1 EST_HUMAN	24034 0.98 2.8E-01 AL021127.2 NT	24038 2.2 2.8E-01 P13615 SWISSPROT	24352 1.03 2.8E-01 D15050.1 NT	24353 1.03 2.8E-01 D15050.1 NT	24394 2.8E-01/AF030154.1 NT	24427 1.54 2.8E-01 BF628188.1 EST_HUMAN	24459 1.7 2.8E-01 AIZ72669.1 EST HIJMAN	24948 21.36 2.8E-01 AA349997.1 EST HUMAN	25419 2.33 2.8E-01 AB016625.1 NT	25784 1.44 2.8E-01 AF003124.1 NT	26786 1.44 2.8E-01 AF003124.1 NT	26073 7.67 2.8E-01 BF511215.1 EST_HUMAN
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Table 4

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| Top Hit Descriptor | qp48h01 x1 NCI_CGAP_Co8 Homo sapiens cDNA clone IMAGE:1926289 3' similar to gb:X06323_cds1
MITOCHONDRIAL 60S RIBOSOMAL PROTEIN I 3 (HIMAN): | qp48h01.x1 NCL_CGAP_Co8 Home sapiens cDNA clone IMAGE:1926289 3' similar to gb:X06323_cds1 | Homo sapiens langieral 14 alpha demath dess artes. Data (Appril) | 602022987F1 NCI CCAP Bridt Home content of the cont | Mus musculus centrin (Cent2) agne complete of: | Lycopersion esculerium nermidese (TDM) and a seculerium nermidese (TDM) | Horno sapiens hypothetical notation (1 OC51340) - Days | 601880794E7 NIH MIGG ES Homo capions of DAA | 601880794F1 NIH M3C 55 Home emigra only decided in Application of the Control of | 601852148F1 NIH MGC 58 Home seriens ONIA - 1 MACE 1000 5 | Drosophila heteroneura fruitiess (fru) gene, alternative splice products, 5' flanking region, exons 1 through 7
 | 602437448F1 NIH MGC 83 Upms conjune CNM

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 | Rattus norvedicus vasicular monoamina troncada. | Feline immunodeficiency virus env cene isolate ITTOnaspil (1848) | te43c11.x2 NCI_CGAP_Lu25 Homo sapiens cDNA clone IMAGE:2046836 3' similar to contains element L1 | OM-HT0875-060000-385 -05 UTA975 U | wog2e11 v1 NCI CGAB Kr44 Hvcc | Homo sepiens DiGeorge syndrome critical region followed:
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 | 11600 | 11639 | 12712 | 12197
 | 12283 | 12883 | 13838 | 13851 | 14681 |
| Probe
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NO: | 6713 | 6713 | 8778 | 6994 | 7311 | 986 | 7789 | 8126 | 8126
 | 8153 | 8254 | 8599

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Page 56 of 413 Table 4 Single Exon Probes Expressed in Heart

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onigie Exoli Plones Expressed in Heart	Top Hit Descriptor	RC1-CT0286-230200-016-e03 CT0286 Homo saniens - DNA	HOWEOBOX PROTEIN HOX A4 (CHOX 4)	FIBRILLIN 1 PRECURSOR	Bos taurus micromolar calcium activated nautral presence 4 (CADAM)	Reference exercises account active and the feature of the feature and the feat	THREONY -TRNA SYNTHETASE /TUBESHINE TRUE TO CAPANI) gene, exons 11-20, and partial cds	THREONY-TRNA SYNTHETASE (THREONINE TRNA LIGASE) (THRES)	FIMBRIAE W PROTEIN	Oryctolegus cuniculus calgranulin C mRNA, partial cals	Mus musculus transcription factor NF-ATC isoform a (NF ATC)	AV705043 ADB Homo sapiens CDNA clone ADRCODING 51	AV705043 ADB Homo sapiens cDNA clone ADBCODOS 5'	Homo sapiens caveolin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)	Gallis mRNA for prancing receive than 8	Homo capiene frantie 460 ovide and a 7500	IROQLOIS-CLASS HOMEODOMAIN BEOTEIN IBX 2	Bos fauris mRNA for mb-1 complete ode	601510838F1 NIH MGC 71 Homo canions of NA start Ital Office of The Control of the	Glycine max pseudodene for Bd 30K	Arabidopsis thaliana DNA chromosome 4, contin framment No. 2	Arabidopsis thaliana DNA chromosome 4, conting fragment No. 2	bb04d10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2958451 3' similar to gb:M36072 60S	MOUSE):	Human prealbumin gene complete cols	B.martitimus rbcl. gene	601126016F1 NIH MGC 9 Homo sanions cDNA alana NA OF concessor Fi	EST386635 MAGE resequences. MAGM Homo saniens china	hv30c02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3174914 3' similar to contains L1.t3 L1	
JIB EXOII PIO	Top Hit Database Source	EST HUMAN	SWISSPROT	SWISSPROT			SWISSPROT	SWISSPROT	SWISSPROT	Į.	LN LN	EST HUMAN	EST_HUMAN	Į.	FN	TN	SWISSPROT	Į.	EST HUMAN	NT	Ę	NT		EST HUMAN	Ę	¥	EST HUMAN	Τ		Т
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	Expression Signal	3.5	3.49	2.25	2.23	2.23	10.08	10.08	2.24	. 1.29	1.93	1.76	1.76	4.09	1.27	2.15	1.54	1.39	2.23	76.0	8.59	8.59		9.9	12	2.68	9.68	1.03	0.94	4 12
	ORF SEQ ID NO:		24838	26192	26565	26566	27453	27454		27888	27921	28322	28323	28333			20224		21133	21188	21624	21625			21895					23245
	Exon SEQ ID NO:		15144	16047	16386	16386	17247	17247	17248	17651	17677	18073	18073	18082	19034	19320	12667	10416	11277	11324	11750	11750		11937	11995	12301	12374	12980	13401	13448
	Probe SEQ ID NO:	4973	5221	6064	6527	6527	7378	7378	7379	7801	7827	8187	8187	8197	9366	9810	462	472	1371	1418	1854	1854		2046	2106	2424	2499	3053	3485	3532

Page 57 of 413 Table 4 Single Exon Probes Expressed in Heart

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23351		6.0	2.6E-01		N	Rettus norvedicus mRNA for organic anion francocutar 3 complete de cons 1A, 2, 3, 4, and 5
23691	F	+	2.6E-01	2.6E-01 AW959510.1	EST HUMAN	EST371580 MAGE resembles MAGE Hampenier of Complete Cos
23742	N	13.13	2.6E-01	2.6E-01 BE080598.1	EST HUMAN	QVI-BT0630-040400-132-e03 BT0630 Home saniens cDNA
23935	22	0.95	2.6E-01	AF175293.1	Ę	Entercocccus faecium strain N97-330 vanD glycopeptide resistance gene cluster, complete cds; and
24072	2	0.84	2.6E-01	2.6E-01 AB021180.1	Ę	Gellis gallis m RNA for ekeletri muncii konce L.
24073	23	0.84	2.6E-01	2.6E-01 AB021180.1	Į.	Gaillis gallins mRNA for chalctel model.
24134	34	1.17	2.6E-01	2.6E-01 AA457617.1	EST HUMAN	aa89007 r1 Stratanene fetal retina 02/200 Umm
24224	집	1.63	2.6E-01	2.6E-01 U01103.1	Z	Arabidopsis thallana PSI type III chlorophyll after branch (1 p. 2217 – 1511)
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24	55	3.56	2.6E-01	-	EST LIMANI	Opinicsua radicusa maturase-like protein (matk.) gene, complete cds; chloroplast gene for chloroplast product
24	24696	0.86	2.6E-01		SWISSPROT	ACY -COA DEHYDROGENASE MEDITIA SERIES CUNA CIONE IMAGE:152288 5
	Γ	2.03	2.6E-01	11.1	Þ	Thermotoca marifima section 123 of 138 of the control of the contr
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23	25777	1.93	2.6E-01	2.6E-01 Al582557.1	EST HUMAN	ts02e12.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2227439 3' similar to SW:NDF1_RAT
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123	25778	1.93	2.6E-01	2.6E-01 Al582557.1	EST_HUMAN	ts02e12.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2227438 3' similar to SW:NDF1_RAT Q64289 NEUROGENIC DIFFERENTIATION FACTOR 1 "contains closured 1 TES"
ฆ	26588	1.52	2.6E-01 R10365	R10365 1	EST LIMANI	y/37a03.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129004 3' similar to
×	26656	1.27	2.6E-01 R02411		EST HIMAN	SECTION OF SMALL NOCLEAR RIBONOCLEOPROTEIN C (HUMAN);
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	-	1.16	2.6E-01 Q28295		SWISSPROT	VON WILLERRAND FACTOR DRECTIDEOD ANATEN
	\vdash	93.65	2.6E-01 X51755.	-	Z	Human lambda-immunoclobulin constant rough, 2000-11-11-11-11-11-11-11-11-11-11-11-11-
	-	1.98	2.6E-01	10190655	Į	Mus musculus jerkv / Irk) mRNA
	Н	1.92	2.6E-01	1	T HUMAN	601511052F1 NIH MGC 71 Home servieure CONIA Size - MA OF CONCAS - 2
25309	8	26	2.6E-01	2.6E-01 AF316896.1	Г	Homo saplens Na/K-ATPase damma subunit (FXYTO) nene complete de alternatione de
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Page 58 of 413
Table 4
Single Exon Probes Expressed in t

					UIO	gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID	Exon SEQ ID	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hit Database	Ton Hit Describbe
ö	ö Z		j j	Value	ġ	Source	
9833	19333		6.03	2.6E-01	AF141325.2	LV.	Homo sablens inosital polyphoenhate 1 phaenhatan (INIDDA)
9899	19376		1.5		2.6E-01 Q01631	SWISSPROT	ADENYLATE CYCLASE (ATP PYROPHOSPHATE-I VASE) (ADENYLY I CYCLASE (ATP PYROPHOSPHATE-I VASE) (ADENYLY I CYCLASE)
241	10209	20025	2.12	2.5E-01	4502296 NT	Į,	Homo sepiens ATP synthese, H+ transporting, mitochondrial F1 complex, detta subunit (ATP5D), nuclear gene encoding mitochondrial profein. mRNA
242	10209	20025	1.86	2.5E-01	4502296 NT	 	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit (ATP5D), nuclear
255	10221		3.24	2.5E-01	M26501.	F	Staffsh (P. ochraceus) cytoplesmic actin gene complete actin
815	10743	20589	1.32	2.5E-01	2.5E-01 [JOSP64 1	Ę	Mic mirea in 100 for 1 and 100 for 100
1044	10962		1.86	2.5E-01	56.1	Į.	Independents Independents gryceralgenyde 3-phosphate dehydrogenase (Gapd-S) gene, complete cds
1105	11021	20864	9.5	2.5E-01		EST HUMAN	Vertical in calydour section of or by or the complete genome.
1503	11407	21266	0.85	2.5E-01	1.	NT.	Botrvits cinerea strain T4 cDNA litrany index conditions of all
1697	11599		5.43	2.6E-01	4885406 NT		Homo canione hypervolerization anti-miss and a miss and
1840	12706	21612	0.88	2.5E-01	2.5E-01 BE696604.1	EST HUMAN	PM4-CT0400-310701-005-day CT0400 Long Collic Indeedagaga potassium channel 4 (HCN4) mRNA
1840	12706	21613	0.88	2.5E-01		EST HUMAN	PM4-CT0400-310700-005-008 CT0400 Home sentons above
2357	12237		8.29	2.5E-01		Į.	Adultex aeolicus section 7 of 100 of the complete course
2446	12323		1.35	2.5E-01		EST HUMAN	ZS11a12 F NCI CGAP GCB1 Home seniors CDNA -1 IVA OF COLORS
2597	12466	22359	0.97	2.5E-01		L L	B.taturus mRNA for D-aspertate oxidase
3366	13285		2.87	2.5E-01	71.1	EST HUMAN	EST385464 MAGE resemblances MAGM Home smiles and in
3490	13406	23211	0.86	2.5E-01		K	Danio rerio bentide YV med usor dene commente con a
3502	13419	23220	7.93	2.5E-01		LN PA	Arabidoosis thaliana DNA chromosome 4 continues No. 20
3774	13686	23468	1.15	2.5E-01	۲.	EST HUMAN	Wg11c07.x1 Sogres NSF F8 9W OT PA P S1 Homo contons about alone Man or construction
3774	13686	23469	1.15	2.5E-01	2.5E-01 AI741483.1	EST HUMAN	Wg11c07.X1 Sogres NSF F8 9W OT PA P S1 Homo engine colvin size NAF R 9W OT PA P S1 Homo engine colvin size NAF R
3977	13884		0.83	2.5E-01 P32323		SWISSPROT	A-AGGLUTININ ATTACHMENT SUBLINIT PRECTIREOR
4222	14120		1.2	2.5E-01 Q03314		SWISSPROT	RHIB PROTEIN
4514	14407	24193	0.96	2.5E-01	H.1	TN	Mus musculus neuronal apoptosis inhibitory protein 6 (Naip6) gene, complete cds, and Naip3 gene, exons 2-9 and 11-16
4643	14531		1.14	2.5E-01 Q27225	Π	SWISSPROT	MOI T-INHIBITING HORMONE DRECT IDEOD ANTES
4649	14535	24324	3.78	2.5E-01	Γ	Į.	Charlstone are furnished a function of the control
4672	14558	24351	2.19	2.5E-01	2.5E-01 AE004416.1	F	Vibrio cholerae chromosome II section 73 of 63 of the complete.
4698	14584		3.16	2.5E-01	2.5E-01 AJ230113.1	Ę	Mus musculus annexin V gene, intron 4 segment containing 5 LTR and gag portion of MuERV-L (murine
4726	14612	24398	0.79	2.5E-01		HUMAN	601437468F1 NIH MGC 72 Home emines all the live access and
					1	1	TOTAL THE CONTROL OF

Page 59 of 413
Table 4

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| Top Hit Descriptor | Mus musculus gene for uncoupling protein 3. 5'-flanking region and northal Et 1715 | hh7509.yi NCI_CGAP_GU1 Homo sapiens GDNA clone IMAGE:2968649 5' similar to contains TAR1.t2
TAR1 repetitive element:

 | hh75f09.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968649 5' similar to contains TAR1.t2
TAR1 remetitive element | T3 recently cofactor 1 Primary 644 Illiams - Data Acces | Mus musculus SKD1 (Skd1) nene complete Africa (1985) mg | Homo sepiens chromosome 21 segment US217000 | 757803 x1 Scares NSF E8 ow of by b stu- | 601459238F1 NIH MGC 66 Homo sanians chuld along 144 CE 200000000000000000000000000000000000 | Vd84f07.r1 Soares fetal liver spleen 1NFI S. Home continue. This city of the continue of the city of t | Homo sapiens matrix metallonroteinase MMMP Raci-1 dans account. | Homo sapiens matrix metallomofeinese MAVD Por 1 4 2000 | Hordeum vulgare recenturalitie kinase I DK40 mms | Horderm vulgare recentor, like kinese Living gene, parial cos
 | RC3-ST0186-130100-015-a07 ST0188 Home content about | xg40c10.x1 NCI_CGAP_Ut1 Home sepiens cDNA clone IMAGE.2630034 3' similar to contains Alu repetitiv | Marise 14M4 INE DNA | Human mBNA for KIA 40424 was a seed a de | Zea mays cellulose synthese 4 (Cont. A) DNA | Arabidopsis thaliana DNA chromosome 4 continue from the 1/2 | Spodoptera frugiperda CALNUC mRNA complete cac | on70d04.s1 Soares NFL T GBC S1 Homo seniens cDNA close IMAGE: JESSONS of
 | 602132442F1 NIH MGC 81 Homo saniens cDNA clone INAACE-1724576 F1 | Homo sapiens KIAA0851 cene (partial) XT3 gene and 1 7TE11 2
 | Homo sapiens KIAA0851 gene (partial) XT3 gene and 1 2TEI 4 | Homo sapiens FLI-1 gene, partial
 | Mesanby/anthernum crystallinum nitatha notoceium oberesi | Zaccys dhumnades fuctose 16-bisnhoshalase mBNA complete cds | Homo sapiens serine palmitov transferase submit il mane commissione della commission
 | IMMUNOGLOBULIN A1 PROTEASE PRECURSOR (IGA1 PROTEASE) | Aquifex aeolicus section 12 of 109 of the complete genome |
| Top Hit
Database
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 | EST HUMAN | N | NT | LN L | EST HUMAN | EST HUMAN | EST HUMAN | L L | ¥
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| Top Hit Acession
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 | | | 2.4E-01 AE000680.1 |
| Most Similar
(Top) Hit
BLAST E
Value | 25E-01 | 2.5E-01

 | 2.5E-01 | 25E-01 | 2.5E-01 | 2.5E-01 | 25E-01 | 2.5E-01 | 2.5E-01 | 2.5E-01 | 2.5E-01
 | 2.5E-01 | 2.5E-01 | 2.5E-01 | 2.5E-01 | 2.5E-01 X | 2.5E-01 | 2.5E-01 A | 2.5E-01 A
 | 2.5E-01 A | 2.4E-01 A | 2.4E-01 B | 2.4E-01 A
 | 2.4E-01 A | 2.4E-01 Y
 | 2.4E-01 | 2.4E-01 A
 | 2.4E-01 Á | 2.4E-01 P. | 2.4E-01/A |
| Expression
Signal | 0.89 | 0.86

 | 0.86 | 11.62 | 1.32 | 3.73 | 2.99 | 2.25 | 3.95 | 16.11 | 16.11
 | 2.04 | 2.04 | 1.5 | 1.62 | 1.68 | 2.32 | 2.45 | 4.2
 | 1.28 | 1.53 | 2.38 | 17.41
 | 17.41 | 1.04
 | 24.08 | 1.41
 | 0.88 | 1.16 | 2.01 |
| ORF SEQ
ID NO: | 24421 | 24802

 | 24803 | 24862 | | 26532 | 26655 | 26858 | 27087 | 27554 | 27555
 | 27547 | 27548 | 27904 | 28105 | 28106 | 28556 | 29117 |
 | 25072 | 20292 | 20608 | 21041
 | 21042 | 21123
 | | 21629
 | 21875 | | 22005 |
| Exon
SEQ ID
NO: | 14635 | 15035

 | 15035 | 15186 | 16229 | 16359 | 16463 | 16667 | 16897 | 17351 | 17351
 | 17341 | 17341 | 17664 | 17860 | 17861 | 18300 | 18851 | 19729
 | 19581 | 10482 | 10757 | 1198
 | 11130 | 11268
 | 11/05 | 1754
 | 11980 | 12010 | ולועו |
| Probe
SEQ ID
NO: | 4750 | 5169

 | 5169 | 2264 | 9989 | 9200 | 6583 | 6788 | 7020 | 7481 | 7481
 | 7622 | 7522 | 7814 | 8010 | 8011 | 8426 | 9074 | 9100
 | 8220 | 25 | 830 | 1282
 | 1282 | 1362
 | 1808 | 1858
 | 2091 | 2722 | 67.70 |
| | Exon SEQ ID NO: Signal Signal Value Signal Value Sequestion (Top) Hit Acession NO: Signal Value Source Sour | Exon
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Signal Expression
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Flat Top Hit Acession
No. Top Hit Acession
Source 14635 24421 0.89 2.5E-01 AB011070.1 NT 15035 24802 0.86 2.5E-01 AW663183.1 EST_HUMAN 15186 24862 0.1622 2.5E-01 S83390.1 NT 16229 1.32 2.5E-01 AF134119.1 NT</td> <td>Exon SEQ ID NO: CRF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession No. Top Hit Ac</td> <td>Exon NO: ORF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession</td> <td>Exon NO: CNF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession No: Top Hit Acession</td> <td>Exon NO: ORF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession</td> <td>Exon ORF SEQ ID ID NO: Expression Signal (Top) Hit Top Hit Acession No: Top Hit Acession No:<</td> <td>Exon ORF SEQ Expression ID NO: Top Hit Acession Signal Most Similar Acid Most Similar ID NO: Top Hit Acession No:<</td> <td>Exon ORF SEQ Expression (Top) Hit Top Hit Acession No. Top Hit Acession No.</td> <td>Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession No. Top Hit Acession No. 1636 24421 0.89 2.5E-01 AB011070.1 NT 15035 24802 0.86 2.5E-01 AW663183.1 EST_HUMAN 15035 24802 0.86 2.5E-01 AW663183.1 EST_HUMAN 15036 24802 0.86 2.5E-01 AM663183.1 EST_HUMAN 16220 11.62 2.5E-01 AM74119.1 NT 16239 2.6E-01 AM743282.2 NT 16463 2.6655 2.99 2.5E-01 AL163282.2 NT 16807 2.087 2.5E-01 BF103040.1 EST_HUMAN 16807 2.087 3.95 2.5E-01 BF3236.2 NT 17351 2.7554 16.11 2.5E-01 BF3236.2 NT 17351 2.7554 16.11 2.5E-01 BG9040.1 EST_HUMAN 17351 2.7554 16.11 2.5E-01 BG9051.2 NT 17341 2.7554 16.11 2.5E-01 BG9051.2 NT</td> <td>Exon ORF SEQ Expression (Top) Hit Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source Source No. 14635 24421 0.89 2.5E-01 AWG63183.1 EST_HUMAN 15035 24802 0.86 2.5E-01 AWG63183.1 EST_HUMAN 15036 24803 0.86 2.5E-01 AWG63183.1 EST_HUMAN 16229 11.62 2.5E-01 AMG63183.1 EST_HUMAN 16239 26832 11.62 2.5E-01 AMG63183.1 EST_HUMAN 1639 26832 11.62 2.5E-01 AMG63183.1 EST_HUMAN 1639 26832 2.5E-01 AMG63183.1 EST_HUMAN 1639 2.6E-01 AMG63183.1 EST_HUMAN 1639 2.5E-01 AMG63183.1 EST_HUMAN 1639 2.5E-01 AMG63183.1 EST_HUMAN 1639 2.5E-01 AMG631.2 NT 1734 2.754 16.11 2.5E-01 AMG631.2 1734 2.754 1.55 2.5E-01 AMG631.2 1734 2.754 2.5E-01 AMG63</td> <td>Exon ORF SEQ Expression
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24803 Top Hit Acession
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Table 4
Single Exon Probes Expressed in Heart

Page 61 of 413 Table 4 Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | Mycoplasma genitalium section 35 of 51 of the complete general | Methanococcus jannaschii section 138 of 150 of the complete genome | 601142073F1 NIH MGC 14 Homo saniens china clone 1848 CE 2505649 E | Mus musculus vacuolar protein sorting 4b (vaast) (Vos4b), mRNA | Yersipla pastis HmeH (hmeH) HmeF (hme) uman (hm-n) | Brassica napus sig gene for Schous phonometer, rules T. (ninst), and HmsS (hmsS) genes, complete of | Mus musculus cdh5 gene expn 1 partial | Homo sapiens partial intron 3 of the wild type AF-4/FEL gene | 601175562F1 NIH MGC 17 Homo sapiens cDNA clone IMACE 2531045 F | Human erythropoietin gene, complete cds | Marinilabilia agarovorans gyrB gene for DNA gyrase subunit B. partial cds. strain: IEO 14057 | no16d06.s1 NCI_CGAP_Phe1 Homo sapiens 50NA clone IMAGE:1100843 3' similar to contains Alu repolitive element contains element TuD contains Alu | W21b07.s1 Spares placents Nh2HP Home continue only all the continue of the con | W97h10.rf Soares fetal liver spleen 1NFI S Homo saniens c-DNA Janua MACE: 343357 31 | GSTA5=glutathione S-transferase Yc2 subunit (5 region, intron 1) [rats, Morris hepatoma cell line, Genomic, 2212 nt. serment 1 of 31 | Homo sapiens KIAAA450 gans provinct (KIAA0450) — Daya | W17701.r1 Soares placenta Nb2HP Homo senions 20NA Alam (NA OF A 2002 File | Mus musculus renin (Ren-1c) gene, promoter renim | Synechocystis sp. PCC6803 camplete gename. 1/27, 1-13385a | Homo saplans miliogen-activated protein kinase p38delta (PRKM13) mRNA complete cale | Homo sapiens nuclear transport factor 2 (placental protein 15) (PP15) mRNA | Human phenylethanolamine N-methyttransferase gene, complete cds | 601896136F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125368 5 | Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis | Conhecicity serie, notice gene, and sodium phosphate transporter (NPT3) gene, complete cds | Estimated the Coll N-12 Mic 1955 section 130 of 400 of the complete genome | 7K30b06x1 NCI_CGAP_Ov18 Home septens cDNA clone IMAGE:3476699 3' similar to SW:GAG_SMSAV P03330 GAG POI YPROTEIN CONTAINS. CODE PDOTTEIN CONTAINS. | SHELL PROTEIN P30; NUCLEOPROTEIN P10]; |
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 | 2.3E-01 | 2.3E-01 | 2.3E-01 | 2.3E-01
 | 2.3E-01 | 2.3E-01 | 2.3E-01 | 23E-01 | 23E-01 | | 2.3E-01
 |
| Expression
Signal | 4.42 | 19.84 | 3.35 | 1.5 | 0.88 | 1.38 | 2.75 | 1.3
 | 1.56 | 1.02 | 0.88 | 129
 | 5.73 | 1.09 | 1. | 3.72 | 0.85
 | 3.35 | 1.02 | 2.08 | 5.1
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 | 12274 | 12483 | 11271 | 12861
 | 12972 | 13244 | 13679 | 13767 | 14152
 | 14198 | 14245 | 14282 | 4348
 | 4000 | 148// | 14969 | 15013 | 15169 | | 15252
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| Probe
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Page 62 of 413
Table 4
Single Exon Probes Expressed in Heart

						_	_	_						_	_				_					_		
Ταρ Hit Descriptor	Cfamiliaris rom1 gene	as27e12.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE;2318446 3' similar to gb;X13238 CYTOCHROME C OXIDASE POLYPEPTIDE VIC PRECLISSOR (HIMMAN).	as27e12.x1 Berstead earta HPLRB6 Homo sepiens cDNA clone IMAGE;2318446 3' similar to gb:X13238 CYTOCHROME C OXIDASE POLYPEPTIDE VICE DEPOLITIONAL CONTRACTOR CANADA CONTRACTOR C	as42f12.xt Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319887 3' similar to contains Alu	Glorina may zaciefanan medin 1 M47	Mus missing masers XV (Mass E. P. P. Predictor KNA, partial cds	6015/15/2F1 NIH MGC 71 Home conjunction of the contraction of the cont	Za12e08 r1 Spares fefal liver sinless ANE S Home control in 1885	Oxytricha nova macronuclear telomere-binding protein alpha subunit (tel-alpha alanine version) gene, complete cds	Haemophilus influenzae genes for Hincil restriction-modification system (Hincil methyltransferase (EC 2.1.172) and Hincil and minimized (EC 3.1.4.1).	MRO-HT0559-24040n-014-011 HT0559 Home continue COMA	Rhizobium logi impresentim parifial generalis DNA 2	601646155R2 NIH Micc. 50 Home continue DNA 11 Micc.	Mus musculus partial mRNA for musche and in E24 (- E24	Mus musculus natial mRNA for muscle are in 524 (mgos4 gene)	Chlamydonhlia pneumoniae AB30 sociim 4 604 4 4	Borrella buradorferi 2 9-6 Incirc ORF A Disease complete genome	HCOEST44 HT29M8 Homo saniens child Alone United to and REP+ gene, partial cds	chn/424.seg. F Human fetal heart ambda 7ADE seg.	PM4-SN0012-030400-001-b06 SN0012 Homo serviers CDNA	x/21d07x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2813773 3' similar to TR:092175	ENTRY TO LE UNIDADE-RELATED PROTEIN 2. ; contains PTR5.b2 TAR1 repetitive element ;	COLOGIZAZET I WITT MICCOLOTI TIGING SAPIENS CLINA CIONE IMAGE:3908689 5	Power managers - DNA 4 - Traing sapiens convenience IMAGE:4297719 5	Raths popelicis mRN for mid mited in	nac39h12.x1 Lupski_sciatic_nerve Homo saplens cDNA clone IMAGE;3395950 3' similar to contains element. MER38 repetitive element:
Top Hit Database Source	N	EST_HUMAN	EST HUMAN	EST HIMAN	NT	Į.	EST HUMAN	EST HUMAN	TN	Į.	EST HUMAN		EST HUMAN	N	Z.	Z	N	EST HUMAN	EST HUMAN	EST_HUMAN	ENT LIMAN	EST LIMANI	EST HIMAN	LN-	LN	EST_HUMAN
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Most Similer (Top) Hit BLAST E Velue	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01 AF1753	2.3E-01	2.3E-01	2.3E-01	2.3E-01 M68931	2.3E-01 X52124	2.3E-01 BE1730	2.3E-01 AJ29326	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01	2.3E-01 T27231.	2.3E-01 AA0898	2.3E-01	2.3E-01	2.3E-01	2.3E-01 BF66331	2.3E-01 A.100651	2.3E-01 AJ00651	2.3E-01 BF47561
Expression Signal	4.83	1.87	1.87	3.93	262	3.19	1.59	2.9	228	1.37	2.54	2.26	4.95	2.84	2.84	2.39	2.53	20.46	1.65	2.07	2.05	4.88	1.93	209	4.54	2.67
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Probe SEQ ID NO:	5395	5618	5618	6111	6384	6487	6491	6560	6664	7657	7712	7740	7974	8525	8525	8658	9144	9232	9258	9266	9324	9358	9407	9456	9549	9793

Page 63 of 413
Table 4
Single Exon Probes Expressed in Heart

			7	7	7	7	\neg	7	_	_		_	_	_		,_							_	_						_			
Oligie Exoli riobes Expressed in near	Top Hit Descriptor	oz14e10.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1675290 3' similar to	Homo saciens PPAR delta cene promoter regions	Timeresurus malabaricus cufu dana nartial ode: mitta-bandi al	Fresh-water soonge Emf1 alpha colladan (COI E4) years	602085608F1 NIH MGC 83 Homo saplens cDNA clara MA CE: 2240550 E1	601462629F1 NIH MGC 67 Homo saniers CDNA close INVACE 4249899 5	601462629F1 NIH MGC 67 Home explants current transfer sold and tra	PM2-HT0355-281299-003-42 HT0359 Long Calls Calls Anna Calls (1990 St. 1990	PM2-HT0353-281299-003-812 HT0353 Homo sapiens cDNA	Home canione ED A9B common feedile	Arabidoseis theirana DNA observance 4	Vinhorbente monthly to the control of the control o	Mis miscriffic ATD kinding concern.	Proceeding melangraphy (1807) (1807) (1807) (1807) (1807) (1807)	orosophila instance as a complete constant and a compl	mus musculus mixed lineage kinase 3 (MIk3) and two pore domain K+ channel subunit (Kcnk6) genes, complete cds	Mus musculus MAP kinasa	Mus musculus MAP kinase kinase kinase 1 (Makk1) mpna	Human scRNA (BC200 beta) pseudogena	Human scRNA (BC200 beta) pseudonema	B.abortus bp26 gene	Human beta-cytoplasmic actin (ACTBP9) pseudonene	2487c05.r1 Stratagene hNT neuron (#937233) Homo saniens CONA close [MAGE salones 5:1	Human dystrophin gene	Mus musculus vinculin dene, exon 3	Homo saplens diaphanous (Drosembila homology) (Alabbia) hereating and a second	Synechocystis sp. PCC6803 complete genome 19/27 2202720 2525000	AV756238 BM Homo saplens cDNA clone RMFAHCOR K	Human glycophorin B gene. exon 4	Human glycophorin B gene, exon 4	Mus musculus nm23-M1 gene, promoter region	Thermotoga maritima section 25 of 136 of the complete genome
	Top Hit Database Source	EST HUMAN	NT	l'X	NT.	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN		Ę	MT	L	L		K	L	NT.	LN L	TN	TN	L	EST_HUMAN	N	LN	2	NT	EST HUMAN	Γ	N	LN	
5	Top Hit Acession No.	2.2E-01 AI052190.1	2.2E-01 AF187850.1	2.2E-01 AF171901.1	2.2E-01 M34640.1				3E155625.1	2.2E-01 BE155625.1	2.2E-01 AF020503.1	T	T	T	_	Ţ	1	2.2E-01 AF117340.1	2.2E-01 AF117340.1					5.1			5803002 NT		, -,			1	_
	Most Similar (Top) Hit BLAST E Value	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2E-01	2.2€-01	2.2E-01	2.2E-01/	2.2€-01 /	2.2E-01	2.2E-01 AF213391	225-01		2.2E-01	22年-01/4	2.2E-01	2.2E-01 U01307.1	2.2E-01 U01307.1	2.2E-01 Z54148.1	2.2E-01 D50604.1	2.2E-01 AA211216	2.2E-01 M86524.1	2.2E-01 L13299.1	2.2年-01	2.2E-01 D64000.1	2.2E-01 AV756238	2.2E-01 M24136.1	2.2E-01 M24136.1	2.2E-01 AF155143	2.2E-01 AE001713
	Expression Signal	0.96	3.13	0.91	2.78	6.24	2.41	2.41	4.04	4.04	1.59	267	1.05	0.81	1.19		5.07	1.97	1.97	1.16	1.16	1.09	122	2.47	1.19	1.2	1.71	3.99	10.59	2.01	2.01	2.19	4.27
	ORF SEQ ID NO:	19885	21311	•	21829		22307	22308	22570	22571				23688				23840	23841	23933	23934	24078		24396	24549		25495		26223	26342	26343		27227
	Exon SEQ ID NO:	10068	11450	11865		12234	12417	12417	12781	12781	12817	13266	13655	13913	14018		14025	14066	14066	14157	14157	14294	14605	14610	14771	14850	15431	15436	16074	16182	16182	16556	17034
	Probe SEQ ID NO:	84	1545	1972	2042	2354	2543	2543	2853	2853	2890	3346	3743	4007	4118		4125	4166	4166	4258	4258	4399	4/19	4724	4891	4975	5513	5518	9	6319	6319	9299	7157

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	Top Hit Descriptor	ato cde	e MACE:4203004 €		late rehomo	all on the second and	ear dens snowling milwhowdria protein	and desired in the control of the co	da gene encount mitochoranal protein, partial cds	essing protein (hmcC), putative ABC transporter of haemocin immunity protein (hmcl) genes, complete		Ma	9 1170	, exon o	KINASE) (DGK-DELTA) (DAG KINASE DELTA)		VNC.	evene R O and medial nets	chair of any pand one	Je IMAGE:3223034 3'				allohne VHa2	of carrying and according to the carrying and the carryin	14440_02004 K	O I ACKAR I O		ANG	
Cirigio Evoli i ionga Evipigased III Dedil	Top Hit C	Saccharomyces cerevisiae tau 138 (TFC3) gene complete cds	602152001F1 NIH MGC 81 Homo saciens cDNA clone IMAGE 1202001 F	Human offactory recentor (OR17-2) gene partial cds	Archaeoglobus fulgidus section 135 of 172 of the complete general	Canis familiaris keratin (KRT9) gene, complete cols	Glycine max malate dehydrogenase (Mdh-2) dene. nuclear dene encoding mittochoodriel modelle matter	Giveine max malafe dehydroxienase (Milh.2) none minfere conservation in the conservati	Mus musculus erythrocyte protein band 4.1-like 3 (Enh4 13) mRNA	Haemophilus influenzae hmcD, putative haemocin processing protein (hmcC), putative ABC transporter (hmcB), putative haemocin structural protein (hmcA), and haemocin immunity protein (hmc) genes, complete cots	S cerevisiae chromosoma II reading frame OBE VBI 025	A.thaliana mRNA for AtRenBP1b protein	Homo saplens o53R2 dene for ribonic/leating reductions	Beta vulgaris mRNA for elongation factor 1, heta	DIACYLGLYCEROL KINASE, DELTA (DIGLYCERIDE KINASE) (DGK-DELTA) (DAG KINASE DELTA) (80 KD DIACY GI YCEROL KINASE)	Homo sapiens pancreatic polymentide 2 (PPY2) #BNA	RC3-HT0622-040500-013-b11 HT0622 Home seniess cfiles	Homo saptens fragile 16D oxido reductase (FOR) gene exms. 8 o and partial and	Human granulin gene	7a59e02.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGF-3223034 3'	Salvelinus alpinus mitochondrion, complete genome	Gallus gallus mRNA for avena, complete cds	Homo sapiens CGI-18 protein (LOC61008), mRNA	O.cunniculus germline IgH heavy chain V-H pseudogene allohme VH=2	Mus musculus Major Histocompatibility Locus class (I region	Synechocystis sp. PCC6803 complete genome, 7/27, 781449-920015	Homo sapiens chromosome 21 segment HS21C013	Homo saplens rac1 gene	PM1-HT0422-291299-002-c06 HT0422 Homo sapiens cDNA	Homo sapiens dystrobrevin, alpha (DTNA), mRNA
100	Top Hit Database Source	F	EST HUMAN	F	ĮŅ	NT	Į.	NT	IN	. 5	Į.	N.	NT.	Į.		036647 NT	EST HUMAN	N-	N	T_HUMAN				Ę	LN	N	Į.	NT	EST_HUMAN	
	Top Hit Acession No.	2.1E-01 M98261.1	2.1E-01 BF672695.1	2.1E-01 U04642.1	2.1E-01 AE000972.1	2.1E-01 AF000949.1	2.1E-01 AF068687.1	2.1E-01 AF068687.1		2.1E-01 U68399.1	2.1E-01 Z35786.1	2.1E-01 X97378.1	2.1E-01 AB036529.1	2.1E-01 Z97067.1		15	2.1E-01 BE180422.1	0.1	.32588.1	2.1E-01 BE672330.1	5835904 NT	2.0E-01 AB017437.1	7705601 NT		5		2	5	1.1	503408
	Most Similar (Top) Hit BLAST E Value	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01	2.1E-01 P52824	2.1E-01	2.1E-01	2.1E-01	2.1E-01 L32588.1	2.1E-01	2.1E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01	2.0E-01 D90905.1	2.0E-01	2.0E-01	2.0E-01 /	2.0E-01
	Expression Signal	0.99	5.99	1.86	1.97	1.74	1.35	1.35	1.21	4.78	5.88	2.36	1.19	2.49	1.49	2.31	2.15	1.6	1.4	1.29	1.29	1.72	2.39	1.19	1.81	1.03	2.57	1.42	1.29	13.51
	ORF SEQ ID NO:	24772	24938	26106		26572	26596	26597		27022	27289	27553	27611	28006	28018		28964			25174		19983		20440	20563	20759	20866	20993	21047	21241
	Exon SEQ ID NO:	15001	15167		16247	16393	16417	16417	16585	16829	17101	17349	17398	17767	17779	18661	18674	19132	19634	19382	19436	10165	10465	10617	10722	10915	11024	11141	11194	11376
	Probe SEQ ID NO:	5134	5243	6123	6385	6535	6559	6559	6705	6951	7224	7479	7547	7917	7929	8849	8862	9522	9730	9905	9979	8	223	684	793	382	1109	1234	1286	1471

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Single Exon Probes Expressed in Heart

Single Exoll Flobes Expressed in Heart	Top Hit Acession Database Top Hit Source	1007974.1 NT Homo sapiens mRNA, chromosome 1 specific transcrint KIAAN505	D.1	0.3 NT	Z	D.1 EST HUMAN	3.1 EST HUMAN	- FA	F F	SWISSPROT	5.1 EST HUMAN	SWISSPROT	5	S.1 EST HUMAN	ΪĀ	8922080 NT Homo sapiens hypothetical profein ASH1 (ASH1) menu	F	Z	1432540 NT	¥	N	EST_HUMAN	TN	TN	Ŋ	NT	-I NT	.1 NT	FN.	N	
Siligle Exult Flobes E		4.1 NT	D.1	0.3 NT	Z	D.1 EST HUMAN	3.1 EST HUMAN	- FA	F F	SWISSPROT	5.1 EST HUMAN	SWISSPROT	5	5.1 EST HUMAN	Ä		₽	Z	1432540 NT	¥	N	EST_HUMAN	TN	TN	Ŋ	NT	-I NT	.1 NT	FN.	N	Z NT
	Most Similar (Top) Hit BLAST E Value	2.0E-01 AB00797	2.0E-01 AF28070	2.0E-01 AF11117	2.0E-01 U67525.1			2.0E-01 X82877.1	2.0E-01 AF074990	2.0E-01 P46607	2.0E-01 AW23800	2.0E-01 P34641	2.0E-01 X83997.1	2.0E-01 BE82616	2.0E-01 AF147083.1	2.0E-01	2.0E-01 Y19216.1	2.0E-01 X5660(2.0E-01	2.0E-01 U15300.1	2.0E-01 X61033.1	2.0E-01 AW360865.1	2.0E-01 AF028026.1	2.0E-01 X91151.1	2.0E-01 AE001278.1	2.0E-01 AF146692.1	2.0E-01 AF086907	2.0E-01 AF086907	2.0E-01 D89088.1	2.0E-01 D89088.1	2.UE-U1 AF-208637
	Expression Signal	251	1.59	1.82	1.64	1.33	1.33	1.67	. 0.95	0.8	0.89	0.81	0.8	8.47	1.07	6.07	1.1	2.55	2.13	5.29	4.31	3.54	6.95	4.18	4.39	2.07	1.95	1.95	2.7	2.7	1.3/
	ORF SEQ ID NO:	21295				21618	21619			23166		23348	23628		24519	24618	24687	25089	25491	25705	25900	25962		26839			27857	27858	28350	28351	
	Exon SEQ ID NO:		11442	11590	11624	11743	11743		12789	13359	13436	13560	13853	14358	14739	14847	14913	15263	15428	15603	15780	15839	16517	16651	17299	17542	1/624	17624	18098	18098	2116
	Probe SEQ ID NO:	1534	1538	1688	1723	1847	1847	2299	2861	3442	3520	3646	3945	4464	4859	4972	5041	5342	5510	5694	5874	5934	6637	6772	7611	7892	1//4	11.74	8214	8214	3 5

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							Origin Expressed III Deall
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2897	19374	25193	1.5	2.0E-01	11528495 NT	N-	Mus musculus fructosamine 3 kinase (Fr3k) mRNA
	10086		10.35	1.9E-01	7549743 NT	IN	Rattus norvegicus And hydrocarbon recening misclear transfered at 1 American And American And American
	10308	20126	9	1.9E-01	1.9E-01 AF004353.1	N	Mus musculus pale ear (ep) dene, wild time allele 3' region partiel As
	10577	20392	1.31	1.9E-01	1.9E-01 U32581.2	μ	Homo sapiens lambda/lota protein kinasa C-interaction protein mRNA complete and
	10577	20393	1.31	1.9E-01	1.9E-01 U32581.2	F	Homo saplens lambda/lota protein kinase C-interacting protein mRNA complete cuts
	10584	20400	5.37	1.9E-01	1.9E-01 BE070801.1	EST HUMAN	RC3-BT0502-251199-011-d01 BT0502 Home sanians citing
	10584	20400	7.32	1.9E-01	1.9E-01 BE070801.1	EST HUMAN	RC3-BT0502-251199-011-d01 BT0502 Homo caniens cDNIA
	10893		1.61	1.9E-01	7305180 NT	12	Mus musculus interleukin 2 recentor genma chain (11974) mBN 4
	11004	20846	93	1.9E-01	1.9E-01 AA358813.1	EST HUMAN	EST67784 Fetal lung II Homo saniens chiva Si and
	11254	21110	2.3	1.9E-01	1.9E-01 AF061282.1	N I	Sorahum bicolor 22 kDa kaftin chister
	11322		3.91	1.9E-01		N-	Plasmodium vivax reticulocyte binding profein-2 (rhp-2) gene gamalete ade
	12211	22109	3.31	1.9E-01	8922533	TN	Homo sepiens hynothetical racie in El 110584 (El 140582)
2892	12819	22611	3.91	1.9E-01	U66066.1	NT	Sigmodon hispidus n53 gene, partial cde
	12834		5.55	1.9E-01		TN	Gallus dallus ovabumin (V) dene complete cds
	13269	23072	3.4	1.9E-01	1.9E-01 D13197.1	NT	Mause gene for immunoalobulin diversity region D1
_ [13351	23156	4.63	1.9E-01	1.9E-01 R16467.1	EST HUMAN	y42710.r1 Soares fetal liver spleen 1NFLS Home saniens cDNA clone IMAGE:120617 F
	13647	23432	0.93	1.9E-01	1.9E-01 AF264017.1	L	Rettus norvedicus arviecetamide descelviase mene commiste aris
i	13675	23457	96:0	1.9E-01 P39768		SWISSPROT	PAIR-RULE PROTEIN ODD-PAIRED
	13820	23600	3.02	1.9E-01	1.9E-01 AB006784.1	N	Schizosaccharomyces nombe DNA for cytonlasmic dynain heavy chain soundate
	13899	23676	1.89	1.9E-01		EST HUMAN	CM3-CT0315-271199-045-b11 CT0315 Home saniers CDNA
	14038	23813	1.06	1.9E-01	-	EST HUMAN	MR1-FN0010-290700-007-d04 FN0010 Home saniens cDNA
	14265	24049	68'0	1.9E-01		NT	Arabidopsis thaliana DNA chromosome 4, contin tragment No. 5
	14548	24338	0.84	1.9E-01		NT	Fugu rubripes genes encoding carbamov phosphate synthetase III mysein light chain MADO
┛	14791	24566	0.86	1.9E-01	1.9E-01 AW849203.1	EST_HUMAN	IL3-CT0215-180200-087-D02 CT0215 Homo sapiens cDNA
	14821		1.04	1.9E-01	1.9E-01 AF223642.1	NT	Rattus norvegicus chemokine receptor CXCR3 mRNA complete cde
	14837	24605	1.11	1.9E-01 095239		SWISSPROT	KINESIN-LIKE PROTEIN KIE4
	14903	24675	1.03	1.9E-01	-	NT	Phoca vitulina partial ear 28 dene for alpha adrenaria recentor 25
5113	14981	24755	66.0	1.9E-01	1.9E-01 Z70296.1	H	S.mansoni elastase HP1 gene
5123	14991		9	1 QF.01	1 0F-01 Ale31100 1	COT ULIMAN	ts93g12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2238886 3' similar to gb:M21574 ALPHA
	15020	24789	0.99	1.9E-01	679095	NT IN	Mus musculus Notch gene homolog 3 (Drasonhila) (Notch 2) Sank
5441	15361		4.28	1.9E-01	1.9E-01 AW 130149.1	HIMAN	#29a07x1 NCI_CGAP_UITH Homes of Computer States of State
5466 1	15386	25446	7.67	1.9E-01	Τ	Т	Home carlant DNA columnation
1					$\left[\cdot \right]$		control supplies by Myriel ase epsilon catalytic subunit protein (POLE1) gene, exon 1a

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Single Exon Probes Expressed in Heart

Signal		_	7~		$\overline{}$	Т	_	_	$\overline{}$			_	т-	_	_	_	_				_					 	_			
Exon (NPF SEQ (Inc.)) Expression (Top) Hit (To	Top Hit Descriptor	AU133116 NT2RP4 Homo sapiens cDNA close NT2RPAnn4339 51	19909412.51 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31663 3' similar to contains MER13	Introduction of the land control through	Zea mays starch homehing one world. At the control of the control	Arabidonale thellow DNA	Homo sapiens mRNA 6 KIA A 4406	Arabidase thelian DNA	Arabidoosis thaliana DNA chramosome 4, contig tragment No. 15	Homo sapiens calcium channel alphafE subunit (CACNATE) gene, exons 7-49, and partial cds, alternatively splined.	Homo canione martial 6 UT4	Procedular majaryanafar alahtar 11-11-11-11-11-11-11-11-11-11-11-11-11-	Archidence 4-di	Andurucipsis unaliana receptor-like kinase LECRK1 (LECRK1) gene, complete cds	Mus mineralus per lorup mixina, complete cds	mus rinsculus Cetti gene tor chaperonin containing TCP-1 gamma subunit, partial cds Homo sanians calcium champal indiana described and a containing to the containing the c	products	OVZIAS (affines ciente for membrane arranged and each each and eac	wd71f02x1 NCI CGAP 1.124 Home continue DNA 11.134 Home continue DNA 11.	Dichostelium discoldeum plasmid Dale	Yershila pastis plasmid ACD1	Mus musculus quandate nucleatide binding protein 1 (Ch. 1) Dhia	Mus musculus quanyate nucleotide binding protein 1 (Chr.4) Phi	Homo saplens latent transforming growth factor hata hinding contain 4.1 TER 1.	1922410 x5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1761811 3' similar to TR:075936 075936 GAMMA BUTYROBETAINF HYDROXYA s.e.	Mus musculus Scya6, Scya9, Scya16-ps, Scya5 genes for small inducible cytokine A6 precursor, small	NY3. DT0018 081300 036 - 04 PT0019 U.S. Complete cds	AND THE SAME TENENT TO THE PROPERTY OF THE PRO	Addana vi Sharma NET T GBO 64 11.	QV0-BN0041-070300-147-c04 BN0041 Homo sapiens cDNA
Exon NO: ORF SEQ Expression (Top) Hit Accession (Top) Hit Accessio	Top Hit Database Source	EST HUMAN	TOT LIBRARY	LV LV	F	Į.	L	<u> </u>	L	<u> </u>	TZ.	12	; 5	-					T HUMAN								T HI IMAN	NUMBER OF THE PROPERTY OF THE	T HUMAN	17
Exon ORF SEQ Expression (T) Mos SEQ ID NO: SIgnal Signal Signal Signal Signal Signal Signal Signal NO: 1.7 1.7 15503 2.26 1.7 2.26 15503 2.4863 1.7 1.7 16538 26446 1.43 1.6 16538 26735 1.62 1.62 16618 27109 1.289 1.75 16618 27109 1.26 1.67 17630 28176 2.16 1.67 18768 22050 2.16 1.67 19146 1.811 2.26 1.26 19546 1.811 1.25 10016 1.9811 2.26 10661 20435 2.15 10661 20435 2.15 11774 21024 5.28 11392 21253 1.29 11700 0.92 1.17 11700 0.92 1.29 12800 22595 1.08			R43212 1		7	T		Γ					, a		-		4502532					6753947 N	6753947 N	4505036 N						
Exon SEQ ID NO: Signs 15503 15503 15503 15503 15519 24863 16538 26446 16530 26476 16538 26735 16538 26735 16538 26735 16538 26735 16538 26735 16538 20641 2663 20641 2663 20643 20641 2663 20643 20641 2663 20632 20635 20644 2663 20635 21253	Most Similar (Top) Hit BLAST E Value	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.9E-01	1.8E-01	1.8E-01		1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01	1.8E-01 A
Exon SEQ ID OR SEQ ID OR 15503 15503 15503 15503 15503 16638 16678 16678 19146 10016 10050 11774 11392 11720	Expression Signal	2.26	1.7	1.43	3.06	1.62	12.89	2.16	2.16	1.75	2.61	1.67	1.26	2.28	122		2.41	2.15	0.85	121	5.28	1.29	1.29	0.92	1.93	1.6	2.99	1.61	1.09	1.28
	ORF SEQ ID NO:							28176	28177	28271	29060			19811	20041		20145	20493	20735	20832	21024	21252	21253			21644			22595	22803
Probe SEQ ID NO:				L			16918	17930	17930	18025	18768	19146	19546	10016	12663		10322	10661	10889	10990	11174	11392	11392	11700	11720	 11769	12527	12796	12800	13012
	Probe SEQ ID NO:	5588	6162	6423	6449	6658	7041	8038	8038	8137	8961	9546	9880	28	260		88	(28	998	1075	1267	1487	\$	1803	1823	 1873	2660	2868	2873	3085

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Single Exon Probes Expressed in Heart

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ORF SEQ Expression (Top) Hit Top Hit Acession Database ID NO: Signal Value Source	EST_HUMAN		1.8 1.7E-01 BE385164.1 EST_HUMAN	20559 2.04 1.7E-01 X53330.1 NT	1.89 1.7E-01 P35616 SWISSPROT	20802 1.6	20803 1.6 1.7E-01 AF081810.1 NT	11833 3.8 1.7E-01 AF255051.1 NT Homo sapiens BNIP3H (BNIP3H) gene, complete cds; nuclear gene for mitochondrial product	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease 1.7E-01 AF000716.1 NT regulatory protein (hapR) gene, complete cds, and YRAL VIBCO gene, partial cds	Vibrio cholerae hypoxanthine phosphoribosyltransferase (hpt) gene, partial cds, hemagglutinin/protease 127549 1.7E-01 AF000716.1 NT regulatory protein (hapR) gene, complete cds, and YRAL VIBCO gene, partial cds	22616 1.74 1.7E-01 AA336909.1 EST_HUMAN	22693 1.35	22694 1.35 1.7E-01 AJ238736.1 NT	22785 1.89 1.7E-01 AF081514.1 NT	Anabaena sp. ORF4 (partial), ORF3, ORF1, adpA gene, adpB gene, adpC gene, adpD gene, adpE gene, adp	23262 1 1.7E-01 AJ224877.1	23562 4.41		24403 1.7E-01 AI247635.1 EST_HUMAN	1.16	1.18	25046 1.76	25047 1.76 1.7E-01 AA470686.1 EST_HUMAN	25839 12.31 1.7E-01 H72118.1	2.15 1.7E-01 AF02652.3
	L		1	1_		L	1_			Í	1_	1_	L	L		1	([[1_		i		
Probe SEQ ID NO:	9738	9776	563	788	945	1042	1042	1938	2829	2829	2896	7967	2987	3067	3401	3557	3859	4459	4732	4986	5067	5321	5321	5820	6112

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Olligia Exoli riones Expressed il Figali	Most Similar Top Hit Acession (Top) Hit Acession Signal BLAST E No. Source Value Value	7.96 1.7E-01 BE734179.1	8 1.2E-01 AF000573.1 NT Homo sapiens homogentisate 1,2-dioxygenase gene, complete cds	7.03 1.7E-01 7706426 NT	7.03 1.7E-01 7706426 NT	5 2.46 1.7E-01 D00384.1 NT Rat (SHR strain) SX1 gene	7.38 1.7E-01 AP001508.1		2.42 1.7E-01 AL163284.2 NT Homo saplens chromosome 21 segment HS21C084	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 2 (SLC7A2), mRNA	1.57	9.13 1.7E-01 BE390835.1 EST HUMAN	2.47	7.88 1.7E-01 7106300 NT	7,88 1.7E-01 7106300 NT	1.7E-01 P15272 SWISSPROT	4.38	1.5 1.7E-01 AL163278.2 NT Homo sapiens chromosome 21 segment HS21C078	1.7E-01 AI824404.1 EST_HUMAN ACID RECEPTOR ALPHA-1 (HUMAN);	8 5.79 1.7E-01 U01317.1 NT Human bela globin region on chromosome 11		6 1.53 1.6E-01 R31497.1 EST_HUMAN \https://discortes placenta Nb2HP Homo sapiens cDNA clone IMAGE:135599 57	8 4.05 1.6E-01 AF298117.1 NT Homo sapiens homeobox protein OTX2 gene, complete cds	2.4 1.6E-01 P22063 SWISSPROT	1 1.6E-01 U10334.1 NT	5 0.96 1.6E-01 X94232.1 NT H.sapiens mRNA for novel T-cell activation protein	2.19 1.6E-01 AB037729.1 NT	8.9 1.6E-01 AF185589.1 NT	8.9 1.6E-01 AF185589.1 NT	1.31 1.6E-01 AJ003165.1 NT	1.31 1.6E-01 AJ003165.1 NT	2.61) 1.6E-01/AE004413.1 NT Vibrio cholerae chromosome II, section 70 of 93 of the complete chromosome
	ORF SEQ Expres ID NO: Sign	26344	26858	26882	26883	27135	27593	27666		28032	28033	28208	28317	28589	28590		29107			25218	18917	20416	21268	21653		22115	22218	22583	22584	23285	23286	
ŀ	Exon O SEQ ID NO:	16183	16468	16693	16693	16943	17382	17452	17725	17792	17793	17958	18068	18329	18329	18757	18811	19666	19513	19253	10097	12641	11409	11778	11836	12719	12320	12791	12791	13495	13495	13828
	Probe SEQ ID NO:	6320	6588	6814	6814	7066	7531	7601	7875	7942	7943	2908	8182	8456	8456	8949	9012	9139	9420	9705	120	664	1505	1882	1941	2335	2443	2863	2863	3581	3581	3919

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Prohe	Fyon			Most Similar	î	Had H	Top H#
SEQ (D	0)	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Database Source	Top Hit Descriptor
4234	14132	23908	7.92	1.6E-01	1.6E-01 AF179680.1	TN	Homo sapiens apelin gene, complete cds
4353	14249		2.44	1.6E-01	1.6E-01 AW968601.1	EST_HUMAN	EST380877 MAGE resequences, MAGJ Homo sapiens cDNA
4361	14257		4.01	1.6E-01	6753319 NT	NT	Mus musculus chaperonin subunit 3 (gamma) (Cct3), mRNA
4781	14665	24451	98'0	1.6E-01	Z28330.1	LN	S.cerevisiae chromosome XI reading frame ORF YKR105c
4781	14665	24452	0.86	1.6E-01	1.6E-01 Z28330.1	NT	S.cerevisiae chromosome XI reading frame ORF YKR105c
4865	14745	24524	1.14	1.6E-01	1.6E-01 AA088343.1	EST HUMAN	284h09.s1 Strategene colon (#937204) Homo sapiens cDNA clone IMAGE:511381 3' similar to TR:E221955 E221955 38,855 BP SEGMENT OF CHROMOSOME XIV.;
4889	14769		1.92	1.6E-01		N	Lycopersicon esculentum Rsal fragment 2, satellite region
4889	14769	24547	1.92	1.6E-01		NT	Lycopersicon esculentum Rsal fragment 2, satellite region
4958	14833	24601	1.09	1.6E-01	1.6E-01 BE018707.1	EST_HUMAN	bb83h08.y1 NIH_MGC_10 Home sapiens cDNA clone IMAGE:3049023 5' similar to gb:M61715 TRYPTOPHANYL-TRNA SYNTHETASE (HUMAN); gb:X69657 M.musculus (MOUSE);
5390	15309	25162	3.12	1.6È-01	1.6È-01 AW197496.1	EST HUMAN	xn43f01x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2686969 3' similar to TR:075984 075984 HYPOTHETICAL 127.6 KD PROTEIN;
5300	16300	25183	2 42	4 BE 04	4 RE 04 AW4034084	TOT INAM	xm43f01.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2686969 3' similar to TR:075984 075984 HYPOTHETICAL 427 6 KD DEOTEIN .
5208	L		202	4 6E-04	T	TN	Rathie nonepipile C.04 Tenhancar binding protein eneiting (cabba) some complete adv
5873				1.6E-01		LZ	Arabidopsis thallana DNA chromosome 4, conting fragment No. 84
5873	15779	25899			2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 84
6157	15115	24858	3.7	1.6E-01	1.6E-01 AW 291215.1	EST_HUMAN	Ul-H-Bi2-agl-b-06-0-Ul.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724418 3'
6571	16429	26612	1.84	1.6E-01	59.1	EST_HUMAN	2822248 Sprime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822248 5'
6592			1.42	1.6E-01		NT	Gorilla gorilla androgen receptor gene, partial exon
7187		27254	1.89	1.6E-01		NT	S.cerevisiae chromosome X reading frame ORF YJR001w
7564			1.7	1.6E-01	1.6E-01 BF375171.1	EST_HUMAN	RC3-ST0200-041199-011-h01 ST0200 Homo sapiens cDNA
7565			1.91	1.6E-01	.	N	S.cerevisiae chromosome X reading frame ORF YJR001w
8049			2.71	1.6E-01	1.6E-01 AW850853.1	EST_HUMAN	IL3-CT0220-111199-028-G01 CT0220 Homo sepiens cDNA
8364			1.78	1.6E-01		SWISSPROT	CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 2 (CHD-2)
8364		28491	1.78	1.6E-01		SWISSPROT	CHROMODOMAIN-HELICASE-DNA-BINDING PROTEIN 2 (CHD-2)
8459			7.6	1.6E-01	AF106064.1	NT	Plasmodium falciparum calcium-dependent protein kinase-3 (cdpk3) gene, complete cds
8713			10.07	1.6E-01		LN	Mus musculus adaptor-related protein complex AP-1, beta 1 subunit (Ap1b1), mRNA
9001		29097	2.69	1.6E-01	AW87712	7.1 EST HUMAN	QV2-PT0010-160400-133-e08 PT0010 Homo sapiens cDNA
9025				1.6E-01		NT	Mus musculus protein kinase, cGMP-dependent, type II (Prkg2), mRNA
9141	18896	28795	2.33	1.6E-01	ě	EST_HUMAN	AV719585 GLC Homo sapiens cDNA clone GLCEMF07 5
9565			6.33	1.6E-01	.1	TN	Cucumis sativus KS mRNA for ent-kaurene synthase, complete cds
9727	19265		2.84	1.6E-01	1.6E-01 AK024496.1	L	Homo sapiens mRNA for FLJ00104 protein, partial cds

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				Most Similar			
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9807	19319		2.47	1.6E-01	1.6E-01 AF287344.1	Ę	Fuchsta hybrid cultivar Qiu 94208 ribosomal protein S10 gene, partial cds; nuclear gene for mitochondrial product
9827	19328	25208	127	1.6E-01	9506522 NT	F	Rattus norvegicus chondroltin sulfate proteoglycan 5 (neuroglycan C) (Csog5), mRNA
248		20030	1.87	1.5E-01	1.5E-01 BE710087.1	EST_HUMAN	IL3-HT0619-040700-197-E05 HT0619 Homo sapiens cDNA
248	10214	20031	1.87	1.5E-01	1.5E-01 BE710087.1	EST HUMAN	L3-HT0619-040700-197-E05 HT0619 Homo sapiens cDNA
572			2.28		1.5E-01 AV711696.1	EST_HUMAN	AV711696 DCA Homo sapiens cDNA clone DCAADH06 5'
766	10697	20534	1.4	1.5E-01	1.5E-01 AL163284.2	Z L	Homo sapiens chromosome 21 segment HS210084
1076	10992		0.88	1.5E-01	1.5E-01 AJ009735.1	F.	Cyprinus carpio mRNA for EGGS22 myosin heavy chain, 3'UTR
1081	10997	20838	1.87	1.5E-01	1.5E-01 AJ251885.1	Ę	Homo sapiens partial SLC22A2 gene for organic cation transporter (OCT2), exon 1
1097	11013		1.82	1.5E-01		LN	Rattus norvegicus insulin-responsive glucose transporter (GLUT4) gene, 5' end
1198	11108	20953	1.36		1.5E-01 AW195516.1	EST HUMAN	xn39d11.x1 NCI_CGAP_Ktd11 Homo sapiens cDNA clone IMAGE:2696086 3'
1254	11161	21010	2.81	1.5E-01	D26535.1	E	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
1254	11161	21011	2.81	1.5E-01	1.5E-01 D26535.1	N	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
1466	11371	21238	1.49	1.5E-01	1.5E-01 AF117340.1	N FN	Mus musculus WAP kinase kinase kinase 1 (Mekk1) mRNA, complete cds
1866	11762	21636	43.	1.5E-01	1.5E-01 AW 444451.1	EST_HUMAN	UHH-Bi3-akb-b-09-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733641 3'
2679	12544	22435	1.12	1.5E-01	1.5E-01 BF695381.1	EST HUMAN	602083269F1 NIH_MGC_81 Homo sapiens cDNA done IMAGE:4247537 5
2999	12927	22719	0.89	1.5E-01	1.5E-01 M81441.1	NT	Bos faurus factor V variant 2 (factor V) mRNA, complete cds
							oo68d05.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1571337 3' similar to gb:M11433
3308	_		4.22	1.5E-01	9.1	EST HUMAN	RETINOL-BINDING PROTEIN I, CELLULAR (HUMAN);
3322		23048	0.87	1.5E-01		NT	L.stagnalis mRNA for G protein-coupled receptor
3322	13242		0.87	1.5E-01	1.5E-01 Z23104.1	NT	L.stagnalis mRNA for G protein-coupled receptor
3380	13298	23097	96.0	1.5E-01	1.5E-01 AW612237.1	EST_HUMAN	hh29f02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2956539 3' similar to contains element MER16 repetitive element;
3696	13610	23394	1.34	1.5E-01	1.5E-01 U09964.1	TN	Mus musculus ICR/Swiss giveraldehyde 3-phosphate dehydrogenase (Gand-S) gene, complete refs
							Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 1 (PDK1), nuclear gene encoding mitochondrial
3/06	- 1		185.26	1.5E-01	7108358 NT	.	protein, mRNA
3791			2.35	1.5E-01	1.5E-01 AW665983.1	EST_HUMAN	hj10f06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2981411.3'
3806			0.8	1.5E-01	1.5E-01 AJ003165.1	NT	Populus trichocarpa cv. Trichobel ABI3 gene
3806	13718		0.8	1.5E-01	1.5E-01 AJ003165.1	TN	Populus trichocarpa cv. Trichobel ABI3 gene
3964		23649	96'0	1.5E-01	1.5E-01 AW366659.1	EST_HUMAN	RC2-HT0149-191099-012-c09 HT0149 Homo sapiens cDNA
4006			76.0	1.5E-01	1.5E-01 Z12628.1	TN	B.napus mitochondrion DNA for ORF158
4091			8.36	1.5E-01	1.5E-01 AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4623	14511	24301	1.34	1.5E-01	BF687665.1	EST HUMAN	602067192F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4066223 5'

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Probe (2007) Control (1994) Prob (2007) Prob (2007)					,			Onigo Exora Tablessed III field I
12544 22435 2.18 1.5E-01 BF695381.1 EST_HUMAN 14566 24361 1.08 1.5E-01 BE173786.1 EST_HUMAN 14566 24367 1.08 1.5E-01 BE173786.1 EST_HUMAN 14808 24376 1.3 1.5E-01 AL161560.2 NT 14942 24716 0.84 1.5E-01 AL161560.2 NT 15139 2483 2.02 1.5E-01 AV860754.1 EST_HUMAN 15319 25367 4.06 1.5E-01 AV860754.1 EST_HUMAN 15349 25367 4.06 1.5E-01 AV860754.1 EST_HUMAN 15349 25369 1.3 1.5E-01 AV860754.1 EST_HUMAN 15540 25681 1.3 1.5E-01 AV860754.1 EST_HUMAN 15563 25681 1.9 1.5E-01 AV860761.1 NT 15684 25681 1.9 1.5E-01 AV860761.1 NT 15684 25684 1.8 1.5E-01 AV860506.1 NT 15684 25684 1.8 1.5E-01 AV860506.1 NT	abe O O	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
14566 24361 1.08 1.5E-01 BE173796.1 EST_HUMAN 14566 24362 1.08 1.5E-01 AL161560.2 NT 14808 24576 1.3 1.5E-01 AL161560.2 NT 14808 24576 1.3 1.5E-01 AL161560.2 NT 14808 24716 0.34 1.5E-01 AV860754.1 EST_HUMAN 15139 24833 2.02 1.5E-01 AV860754.1 EST_HUMAN 15346 25397 4.06 1.5E-01 AV860754.1 EST_HUMAN 15346 25399 6.77 1.5E-01 AV860754.1 EST_HUMAN 15346 25399 6.77 1.5E-01 AV860754.1 EST_HUMAN 15540 25399 6.77 1.5E-01 AV860754.1 EST_HUMAN 15641 1.5E-01 AV860754.1 EST_HUMAN 1.5E-01 AV860754.1 EST_HUMAN 15641 1.5E-01 AV860754.1 EST_HUMAN 1.5E-01 AV860556.1 NT 15641 1.5E-01 AV860556.1 1.447236.1 NT 15641 1.5E-01 AV86036.1 NT NT <	4645			2.18	1.5E-01	-	EST HUMAN	602089269F1 NIH MGC
14566 24362 1.08 1.5E-01 BE173796.1 EST HUMAN 14800 24576 1.3 1.5E-01 AL161560.2 NT 14802 24776 0.84 1.5E-01 AL161560.2 NT 15139 24833 2.02 1.5E-01 P07996 SWISSPROT 15139 25367 4.06 1.5E-01 AW860754.1 EST HUMAN 15346 25639 6.77 1.5E-01 GN79616.1 NT 15544 25639 6.77 1.5E-01 GN79676.1 NT 15545 25639 6.77 1.5E-01 GN79676.1 NT 15540 25634 1.3 1.5E-01 GN79676.1 NT 15641 25634 1.3 1.5E-01 GN79676.1 NT 15642 25639 1.3 1.5E-01 GN7968.0 NT 15644 1.5E-01 ANAN 1.5E-01 AF134907.1 NT 15647 1.5E-01 ANAN 1.5E-01 AF134907.1 NT 15647 1.5E-01 ANAN 1.5E-01 AF134907.1 NT 15647 1.5E-01 ANAN 1.5E-01	4680	14566		1.08	1.5E-01		EST HUMAN	CM0-HT0565-280200-245-b10 HT0565 Homo sapiens cDNA
14808 24576 1.3 1.5E-01 AL161560.2 INT 14808 24716 0.84 1.5E-01 P07996 SWISSPROT 15139 24833 2.02 1.5E-01 P07996 SWISSPROT 15346 25836 4.06 1.5E-01 U65016.1 INT 15346 25839 6.77 1.5E-01 U65016.1 INT 15346 25680 6.77 1.5E-01 U65016.1 INT 1564 25680 6.77 1.5E-01 U65016.1 INT 1564 25680 6.77 1.5E-01 U65016.1 INT 15694 25694 1.9 1.5E-01 U65016.1 INT 15691 1.9 1.5E-01 U65016.1 INT 15694 25645 1.37 1.5E-01 U65016.1 INT 15840 25948 1.36 1.5E-01 AL142607.1 INT 15841 25645 1.36 1.5E-01 AL0601.1 INT 15840 25645 1.31 1.5E-01 AL0601.1 INT 15840 25645 1.31<	4680	14566		1.08	1.5E-01		EST HUMAN	CM0-HT0566-280200-245-b10 HT0565 Homo saplens cDNA
14942 24716 0.84 1.5E-01 AF003105.1 NIT 15139 24833 2.02 1.5E-01 P07996 SWISSPROT 15346 25837 4.06 1.5E-01 P05016.1 NIT 15346 25839 6.77 1.5E-01 U65016.1 NIT 15346 25839 6.77 1.5E-01 U65016.1 NIT 15346 25694 1.9 1.5E-01 G753650 NIT 15694 25694 1.37 1.5E-01 G753650 NIT 15697 1.5E-01 G753650 NIT NIT 15694 1.3F-01 G753650 NIT NIT 15695 25774 2.44 1.5E-01 AF06350 NIT 15840 25645 1.3F-01 AF144267.1 NIT 15840 25645 1.3F-01 AF204300 NIT 15840 25645 1.3F-01 AF147236 NIT 15840 25645 1.3F-01 <	4929			1.3	1.5E-01		N	Arabidopsis thaliana DNA chromosome 4, contin fragment No. 60
15139 24833 2.02 1.5E-01 P07996 SWISSPROT 15188 5.67 1.5E-01 P15186 SWISSPROT 15319 25367 4.06 1.5E-01 AW850754.1 EST_HUMAN 15346 25398 6.77 1.5E-01 U65016.1 NT 15564 25639 1.3 1.5E-01 U65016.1 NT 15664 25694 1.3 1.5E-01 AJ276505.1 NT 15669 25694 1.8 1.5E-01 AJ276505.1 NT 15681 25774 2.44 1.5E-01 AJ276505.1 NT 15691 1.7 1.5E-01 AJ276505.1 NT 15692 25948 1.5E-01 AL76505.1 NT 15691 1.5E-01 AF134907.1 NT 15840 25948 1.5E-01 AF134907.1 NT 15840 25948 1.5E-01 AF134907.1 NT 15840 1.5E-01 AF134907.1 NT 15840 1.5E-01 AF134907.1 NT 15840 1.5E-01 AF134907.1 NT 16345	5072			0.94	1.5E-01		N	Arabidopsis thaliana AP2 domain containing protein RAP2.12 mRNA partial cots
15188 5.67 1.5E-01 P15186 SWISSPROT 15319 25367 4.06 1.5E-01 AW850754.1 EST_HUMAN 15345 25398 6.77 1.5E-01 U65016.1 NT 15664 25690 1.9 1.5E-01 U65016.1 NT 15668 25694 1.8 1.5E-01 U65016.1 NT 15669 25694 1.8 1.5E-01 U65016.1 NT 15681 25674 2.44 1.5E-01 U65016.1 NT 15681 25774 2.44 1.5E-01 AZ76505.1 NT 15681 25974 1.5E-01 AZ76505.1 NT 15840 25973 1.8 1.5E-01 AZ76505.1 NT 15840 25973 1.8 1.5E-01 AZ76505.1 NT 15845 25973 1.8 1.5E-01 AZ76007.1 NT 16345 25973 1.8 1.5E-01 AZ70042.1 NT 16235 26973 1.8 1.5E-01 AZ70042.1 EST HUMAN 16236 26507 1.68 1.5E-0	5216	,		202	1.5E-01		SWISSPROT	THROMBOSPONDIN 1 PRECURSOR
15319 25367 4.06 1.5E-OI AW850754.1 EST HUMAN 15345 25398 6.77 1.5E-OI U65016.1 NT 1564 25399 6.77 1.5E-OI 6753659 NT 1564 25661 1.9 1.5E-OI 6753659 NT 1564 25664 1.9 1.5E-OI 6753659 NT 1569 25694 1.87 1.5E-OI 6753659 NT 15691 25694 1.87 1.5E-OI 4506396 NT 15734 25845 1.78 1.5E-OI 4506396 NT 15840 25948 1.36 1.5E-OI 4506396 NT 15840 25948 1.36 1.5E-OI AF134907.1 NT 15840 25948 1.36 1.5E-OI AF134907.1 NT 15840 25948 1.36 1.5E-OI AF1417236 NT 15840 25949 1.31 1.5E-OI AF200342.1 NT <td>5266</td> <td>15188</td> <td></td> <td>5.67</td> <td>1.5E-01</td> <td></td> <td>SWISSPROT</td> <td>SEX HORMONE-BINDING GLOBULIN PRECURSOR (SHBG) (SEX STEROID-BINDING PROTEIN)</td>	5266	15188		5.67	1.5E-01		SWISSPROT	SEX HORMONE-BINDING GLOBULIN PRECURSOR (SHBG) (SEX STEROID-BINDING PROTEIN)
15345 25398 6.77 1.5E-01 U65016.1 NT 15346 25399 6.77 1.5E-01 U65016.1 NT 15564 25690 1.9 1.5E-01 6753659 NT 15567 2.5694 1.87 1.5E-01 6753659 NT 15691 1.87 1.5E-01 6753659 NT 15692 25694 1.87 1.5E-01 8E727658.1 EST HUMAN 15734 25948 1.78 1.5E-01 AF06396 NT 15845 25948 1.86 1.5E-01 AF134907.1 NT 15846 25963 6.13 1.5E-01 AF20403.1 NT 1585 25948 1.86 1.5E-01 AF20402 SWISSPROT 15846 25963 6.13 1.5E-01 AW970295.1 NT 16128 25969 1.31 1.5E-01 AW970295.1 EST HUMAN 16148 1.5E-01 AW970295.1 EST HUMAN 1634	5400	15319		4.06	1.5E-01	T	EST HUMAN	IL3-CT0219-160200-064-F10 CT0219 Homo saniens cDNA
15345 25399 6.77 1.5E-01 U65016.1 NT 15564 25680 1.9 1.5E-01 6753659 NT 15564 25681 1.9 1.5E-01 6753659 NT 15563 25694 1.87 1.5E-01 6753650 NT 15681 25774 2.44 1.5E-01 8E727658.1 EST HUMAN 15734 25845 1.78 1.5E-01 AF134907.1 NT 15734 25948 1.36 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AF134907.1 NT 15840 25948 1.36 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AF20403.2 SWISSPROT 15835 26067 1.4 1.5E-01 AW970295.1<	5424	15345		6.77	1.5E-01		LN LN	Mus musculus transforming growth factor alpha (TGFs) mRNA complete ade
1564 25660 1.9 1.5E-01 6753659 NT 15664 25661 1.9 1.5E-01 6753659 NT 15664 25694 1.87 1.5E-01 6753650 NT 15691 2774 2.44 1.5E-01 BE727658.1 EST HUMAN 15691 1.86 1.5E-01 AF06396 NT 15734 25948 1.78 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AF01039.1 NT 15845 25948 1.86 1.5E-01 AF234907.1 NT 15846 25963 6.13 1.5E-01 AF234907.1 NT 15847 25971 1.81 1.5E-01 AF234907.1 NT 15846 2508 1.5E-01 AW970295.1 EST HUMAN 16148 1.5E-01 AW970295.1 EST HUMAN 16340 2650 1.5E-01 AW970295.1 EST HUMAN 16340 2650 1	5424	15345		6.77	1.5E-01		LN	Mus musculus transforming growth factor albha (TGFa) mRNA complete cds
1564 25661 1.9 1.5E-01 6753659 NT 1553 25694 1.87 1.5E-01 A577656.1 NT 15681 25774 2.44 1.5E-01 A506396 NT 15691 1.86 1.5E-01 A506396 NT 15734 25948 1.78 1.5E-01 AF134907.1 NT 15840 25948 1.86 1.5E-01 AE001039.1 NT 15840 25963 6.13 1.5E-01 AE01039.1 NT 15840 25973 1.81 1.5E-01 AE01039.1 NT 1585 25007 1.4 1.5E-01 AE01039.1 NT 16128 25007 1.4 1.5E-01 AW970295.1 SWISSPROT 16148 1.5E-01 AW970295.1 EST HUMAN 16340 2650 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5E-01 AW970291.1 EST HUMAN 16340 26508 1	5652	15564	25660	6.1	1.5E-01		TN	Mus musculus DNA methyltransferase 2 (Dnmt2) mRNA
15583 25694 1.87 1.5E-01 AJ276505.1 NT 15684 25774 2.44 1.5E-01 BE727658.1 EST HUMAN 15734 25845 1.78 1.5E-01 AF134907.1 NT 15734 25948 1.78 1.5E-01 AF134907.1 NT 15840 25963 6.13 1.5E-01 AE001039.1 NT 1587 25971 1.81 1.5E-01 AE001039.1 NT 1587 25007 1.81 1.5E-01 AE01039.1 NT 1587 25007 1.4 1.5E-01 AE01039.1 NT 1587 25007 1.4 1.5E-01 AW970295.1 EST HUMAN 16148 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5E-01 AW970317.1 EST HUMAN 16770 26508 1.5E-01 AW970317.1 EST HUMAN 16770 <	5652	15564	25661	1.9	1.5E-01		Z	Mus musculus DNA methyltransferase 2 (Dnmt2), mRNA
15668 25774 2.44 1.5E-01 BE727658.1 EST HUMAN 15691 1.58 1.5E-01 4506396 NT 15734 25845 1.78 1.5E-01 AF134907.1 NT 15455 25948 1.96 1.5E-01 AE001039.1 NT 15840 25963 5.13 1.5E-01 AE001039.1 NT 15876 25071 1.81 1.5E-01 P48508 SWISSPROT 15876 25067 1.4 1.5E-01 P30443 SWISSPROT 15836 26866 5.63 1.5E-01 AW970295.1 EST HUMAN 16148 1.77 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5B 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5B 1.5E-01 AW970317.1 EST HUMAN 16770 26508 1.5E-01 AW970317.1 EST HUMAN 16770 26508 1.5E-01 AW970317.1 EST HUMAN	884	15593		1.87	1.5E-01		LN.	Mus musculus genomic fragment, 279 Kb, chromosame 7
15691 1.56 1.5E-01 4506396 NT 15734 25845 1.78 1.5E-01 AF134907.1 NT 19455 25948 1.96 1.5E-01 AE001039.1 NT 15840 25963 6.13 1.5E-01 AE001039.1 NT 15840 25971 1.81 1.5E-01 P48508 SWISSPROT 15875 26067 1.4 1.5E-01 P30443 SWISSPROT 15123 24866 5.63 1.5E-01 AW970295.1 EST HUMAN 16148 1.77 1.5E-01 AW970295.1 EST HUMAN 16340 26507 1.68 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.68 1.5E-01 AW970295.1 EST HUMAN 16340 26508 1.5E-01 AW970317.1 EST HUMAN 16770 26508 1.5E-01 AW970317.1 EST HUMAN 16770 26508 1.5E-01 AW970317.1 EST HUMAN 1677	2,00	15668		2.44	1.5E-01		EST HUMAN	601564322F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3833981 5
15734 25845 1.78 1.5E-01 AF134907.1 NT 15840 25948 1.86 1.5E-01 AE001039.1 NT 15840 25963 5.13 1.5E-01 P48508 SWISSPROT 1587 26000 2.09 1.5E-01 P48508 SWISSPROT 15835 26067 1.4 1.5E-01 P30143 SWISSPROT 16123 24866 5.63 1.5E-01 AW970285.1 EST HUMAN 16148 1.77 1.5E-01 AW970285.1 EST HUMAN 16340 26506 1.5E-01 AW970285.1 EST HUMAN 16340 26508 1.5E-01 AW970286.1 EST HUMAN 16340 26508 1.5E-01 AW970317.1 EST HUMAN 16655 26856 1.5E-01 AW970317.1 EST HUMAN 16770 26988 1.5E-01 AW970317.1 EST HUMAN 16770 26988 1.5E-01 AW970317.1 EST HUMAN 16770 26988	3785	15691		1.86	1.5E-01	9889	NT.	Homo sapiens RAD54 (S.cerevisiae)-Hike (RAD54L) mRNA
19455 25948 1.96 1.5E-01 AE001039.1 NT 15840 25963 6.13 1.5E-01 11417238 NT 15876 26900 2.09 1.5E-01 228462 SWISSPROT 15835 26067 1.4 1.5E-01 P30143 SWISSPROT 15123 24866 5.63 1.5E-01 P30143 SWISSPROT 16148 1.77 1.5E-01 P30143 SWISSPROT 16148 1.77 1.5E-01 P30143 SWISSPROT 16236 26396 1.5E-01 AW970285.1 BT_HUMAN 16340 28507 1.68 1.5E-01 AW500611.1 EST_HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST_HUMAN 16774 11.77 1.5E-01 AW500611.1 EST_HUMAN 16774 11.77 1.5E-01 AW500317.1 EST_HUMAN 16774 11.77 1.5E-01 AW500317.1 EST_HUMAN 16774 1	3828	15734		1.78	1.5E-01		LN.	Influenza B virus (B/Nancheno/480/94) NB protein nene complete cde: and neurominidate of the contraction of
15840 25963 6.13 1.5E-01 11417236 NT 15847 25971 1.81 1.5E-01 P48508 SWISSPROT 15876 26000 2.09 1.5E-01 Q28462 SWISSPROT 15835 26067 1.4 1.5E-01 P30143 SWISSPROT 16148 1.77 1.5E-01 AW970295.1 EST HUMAN 16236 28506 1.8 1.5E-01 AW970295.1 INT 16340 28507 1.8 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 1674 1.77 1.5E-01 AW500611.1 EST HUMAN 1674 1.77 1.5E-01 AW500611.1 EST HUMAN 1677 1.75 1.5E-01 AW500611.1 EST HUMAN 1677 1.77 1.5E-01 AW500611.1 EST HUMAN 1	3917	19455	25948	1.86	1.5E-01		NT.	Archaeoglobus fulgidus section 68 of 172 of the complete genome
15847 25971 1.81 1.5E-01 P48508 SWISSPROT 15876 26000 2.09 1.5E-01 Q28462 SWISSPROT 15835 26067 1.4 1.5E-01 Q28462 SWISSPROT 15123 24866 5.63 1.5E-01 AW970295.1 EST HUMAN 16148 1.77 1.5E-01 AW970295.1 INT HUMAN 16340 26507 1.68 1.5E-01 AW600611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW600611.1 EST HUMAN 16774 1.77 1.5E-01 AW970317.1 EST HUMAN 16750 26983 1.22 1.5E-01 AW970317.1 EST HUMAN 16750 26983 1.88 1.5E-01 AB970317.1 EST HUMAN 16750 26983 1.88 1.5E-01 AB970317.1 EST HUMAN 16750 26983 1.88 1.5E-01 AB970317.1 INT	3935	15840	25963	5.13	1.5E-01	11417236	LA	Homo sapiens chromosome 5 open reading frame 3 (C50RE3), mRNA
15876 26000 2.09 1.5E-01 Q28462 SWISSPROT 15835 26067 1.4 1.5E-01 P30143 SWISSPROT 16148 1.77 1.5E-01 AW970286.1 EST_HUMAN 16236 28396 1.8 1.5E-01 AP210842.1 NT 16340 28507 1.68 1.5E-01 AW500611.1 EST_HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST_HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST_HUMAN 16774 11.77 1.5E-01 AW500317.1 EST_HUMAN 16774 11.77 1.5E-01 C16800.1 EST_HUMAN 16774 11.77 1.5E-01 C16800.1 EST_HUMAN 16774 11.77 1.5E-01 C16800.1 EST_HUMAN 16774 1.5E-01 L5E-01 C16800.1 EST_HUMAN 16774 1.5E-01 D84476.1 NT	3942	15847	25971	1.81	1.5E-01		SWISSPROT	GLUTAMATE-CYSTEINE LIGASE REGULATORY SUBUNIT (GAMMA-GLUTAMYLCYSTEINE SYNTHETASE) (GAMMA-FCS) (GCS I IGHT CHAIN)
15835 26067 1.4 1.5E-01 P30143 SWISSPROT 15123 24866 5.63 1.5E-01 AW970235.1 EST HUMAN 16236 28396 1.88 1.5E-01 AP510842.1 NT 16340 28507 1.68 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 1674 1.22 1.5E-01 AW500611.1 EST HUMAN 16774 11.77 1.5E-01 AA970317.1 EST HUMAN 16774 11.77 1.5E-01 AB970317.1 EST HUMAN 16774 11.77 1.5E-01 AB970317.1 EST HUMAN 16780 28983 1.88 1.5E-01 AB970317.1 EST HUMAN 1679 28983 1.88 1.5E-01 AB970317.1 EST HUMAN 1679 28983 1.88 1.5E-01 AB970317.1 NT	972	15876	26000	2.09	1.5E-01		SWISSPROT	AMELOGENIN
15123 24866 5.63 1.5E-01 AW970295.1 EST HUMAN 16736 26396 1.38 1.5E-01 AF210842.1 NT 16340 26507 1.68 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 1674 28508 1.22 1.5E-01 AW500611.1 EST HUMAN 16774 1.22 1.5E-01 AM970317.1 EST HUMAN 16774 11.77 1.5E-01 C16800.1 EST HUMAN 16750 26983 1.88 1.5E-01 C16800.1 EST HUMAN 16750 26983 1.86 1.5E-01 C16800.1 EST HUMAN 16750 26983 1.86 1.5E-01 C16800.1 EST HUMAN 16750 26983 1.86 1.5E-01 C16800.1 EST HUMAN	3031	15935	26067	1.4	1.5E-01		SWISSPROT	HYPOTHETICAL 51.7 KD PROTEIN IN THRC-TALB INTERGENIC REGION (ORER)
16148 1.77 1.5E-01 AF210842.1 NT 16236 26396 1.88 1.5E-01 AI973157.1 EST HUMAN 16340 26507 1.68 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 16774 11.22 1.5E-01 AA970317.1 EST HUMAN 16774 11.77 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.88 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.88 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.86 1.5E-01 C16800.1 EST HUMAN 16873 27064 1.44 1.5E-01 D84476.1 NT	188	15123	24866	5.63	1.5E-01	5.1	EST HUMAN	EST382376 MAGE resequences, MAGK Homo sapiens cDNA
16236 26396 1.88 1.5E-01 Al973157.1 EST HUMAN 16340 26507 1.68 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 16774 1.22 1.5E-01 AA970317.1 EST HUMAN 16774 11.77 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.88 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.88 1.5E-01 C16800.1 EST HUMAN 16873 27064 1.44 1.5E-01 D84476.1 NT	284	16148		1.77	1.5E-01	<u>.</u>	4	Homo sapiens HARP (HARP) gene, exon 17 and comblete cds
16340 28507 1.58 1.5E-01 AW500611.1 EST HUMAN 16340 28508 1.68 1.5E-01 AW500611.1 EST HUMAN 16774 1.22 1.5E-01 AA970317.1 EST HUMAN 16774 11.77 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.38 1.5E-01 C16800.1 EST HUMAN 16873 27064 1.44 1.5E-01 D84476.1 NT	3374	16236		1.88	1.5E-01	-	EST HUMAN	wr52c08.x1 NCI CGAP Utf Homo sapiens cDNA clone IMAGE 24g1310 3'
16865 28856 1.22 1.5E-01 AW500611.1 EST_HUMAN 16774 1.22 1.5E-01 AA970317.1 EST_HUMAN 16779 26983 1.88 1.5E-01 C16800.1 EST_HUMAN 16790 26983 1.88 1.5E-01 L27835.1 NT 16873 27064 1.44 1.5E-01 D84476.1 NT	748	16340	26507	1.68	1.5E-01	1.7	EST HUMAN	UI-HF-BNO-akk-4-05-0-UI.rl NIH MGC 50 Homp sapiens cDNA clone IMAGE 3077200 F
16865 28856 1.22 1.5E-01 AA970317.1 EST_HUMAN 16774 11.77 1.5E-01 C16800.1 EST_HUMAN 16790 26983 1.88 1.5E-01 L27835.1 NT 16873 27064 1.44 1.5E-01 D84476.1 NT	8	16340	26508	1.68	1.5E-01	1.1	Π	UI-HF-BN0-akk-d-05-0-UI.11 NIH MGC 50 Homo sapiens cDNA clone IMAGE:3077200 5:
16774 11.77 1.5E-01 C16800.1 EST HUMAN 16790 26983 1.88 1.5E-01 L27835.1 NT 16873 27064 1.44 1.5E-01 D84476.1 NT	1786	16665	28856	1.22	1.5E-01	7		0085912.s1 NCI_CGAP_Kid5 Home sapiens cDNA clone IMAGE:1673030 3' similar to gb:M26062 INTERLEUKIN-2 RECEPTOR BETA CHAIN PRECIRSOR (HIMAAN)
16873 27064 1.44 1.5E-01 D84476.1 NT	3895	16774		11.77	1.5E-01		HUMAN	C16800 Clontech human aorta polyk+ mRNA (#6572) Homo sanlens chong close CEN Evalue E
16873 27064 1.44 1.5E-01 D84476.1 NT	3912	16790	26983	1.88	1.5E-01		7	Pangasianodon digas growth harmone (GH) mRNA complete cole
	988	16873	27064	1.44	1.5E-01		ラ	Homo sapiens mRNA for ASK1, complete cds

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Table 4
Single Exon Probes Expressed in E

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Table 4
Single Exon Probes Expressed in Heart

1862 28352 3.28 1.4E-01 AA811480.1 EST HUMAN 18100 28352 3.28 1.4E-01 R53400.1 EST HUMAN 18480 28751 1.89 1.4E-01 X56092.1 NT	Probe SEQ ID NO: NO: 3823 3823 4083 4083 4114 5032 5032 5032 5032 5032 5033 5033 5033	Exen SEQ ID NO: 12624 13735 13735 13885 13985 14044 14044 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 15014 17044 17	ORF SEQ ID NO: 22517 23524 23525 23762 23763 24769 24964 24964 24964 24964 24964 24964 24964 24964 24964 24964 25935 25935 25935 2777 27770 27760 27760		Nost Similar (Top) Hit BLAST E Value 1.4E-01 1	cession 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Top Hit Satabase Source HUMAN	wm74461.x1 NOI_CGAP_UZ Homo sapiens cDNA clone IMAGE:2441685 3' yg97a03.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:41487 5' yg97a03.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:41487 5' be5602.x1 NOI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3' he5602.x1 NOI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3' he5602.x1 NOI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3' he6602.x1 NOI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2273570 3' hemotoga matitima section 22 of 135 of the compilate genome agricultural aspiration and the compilate genome agricultural to the compilate agricultural to the compilate genome agricultural to the compilate agricultural to the compilate repoletis blw for mitochondrial NADP-linked iscolitate delydrogenese, compilete cds and the foreign blw for mitochondrial NADP-linked iscolitate delydrogenese, compilete cds and the foreign blw for mitochondrial NADP-linked iscolitate delydrogenese, compilete cds and the foreign blw for mitochondrial NADP-linked iscolitate delydrogenese, compilete cds and the foreign blw for mitochondrial NADP-linked iscolitate delydrogenese, compilete cds and the foreign blw foreign scholar foreign scholar foreign scholar spilates cDNA clone IMAGE:387781 F GAGE State Homo sapiens cDNA clone IMAGE:387781 F GAGE State Homo sapiens cDNA clone IMAGE:387782 F GAGE State Homo sapiens cDNA clone IMAGE:4724824 F GAGE State Homo sapiens cDNA clone IMAGE:4724824 F GAGE GAGE State Homo sapiens cDN
18480 28751 1.89 1.4E-01.X66092.1 NT	8216	ı	28352	3.28	1.4E-01	_	HUMAN	oa99a03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1320364 3/
18480 28751 1.89 1.4E-01 X660921 INT	2170	1	70007	3.20	1.45-01		THOMAN	170c05.r1 Soares breast 2NbHBst Homo sapiens cDNA clone IMAGE:154088 5'
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8613		28751	1.80	1.4E-01		TN	C berfingens ORE for nitative membrane transmet models

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Table 4
Single Exon Probes Expressed in Heart

	Top Hit Descriptor	Borrelia burgdorferi glyceraldehyde-3-phosphate dehydrogenase (GAPDH), phosphoglycerate kinase (PGK), triosephosphate isomerase (TPI) genes, complete cds	kDa profein	aldolase, partial cds), mRNA	601315638F1 NIH_MGC_8 Homo sepiens cDNA clone IMAGE:3634329 5	Fugu rubripes pulative neurotransmitter receptors, YDR140w homolog, and glycinamide ribonucleotide	Synechocystis sp. PCC6803 complete genome, 23/27, 2868767-3002655	TYROSINE-PROTEIN KINASE TRANSFORMING PROTEIN ABI	601465575F1 NIH MGC 67 Homo sapiens cDNA clone IMAGE 388795 5	83), mRNA	lase, complete cds	HT0208 Homo sablens cDNA	d receptor 50 (GPR50) mRNA	d receptor 50 (GPR50) mRNA	complete cds	Human calicivirus HU/NLV/Girlington/93/UK RNA for capsid protein (ORF2), strain HU/NLV/Girlington/93/1/K	Human calicivirus HU/NLV/Girlington/93/UK RNA for cansid protein (ORE2)	P.dumerilli histone gene cluster for core histones H2A, H2B, H3 and H4	thor protein mRNA, complete cds	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	cDNA clone DCAAFF05 5'	SMS mRNA, complete cds	Botrytis cinerea strain T4 cDNA library under conditions of nitrogen deprivation	Rhodopseudomonas acidophila pucB5, pucA5, pucB6, pucA5, pucB7, pucA8, pucA8 and pucC genes and ORF151	ST0173 Homo saplens cDNA	Archaeoglobus fulgidus section 91 of 172 of the complete genome	mRNA, complete cds
Single Exoli Plones Expressed in near	÷	Borrelia burgdorferi glyceraldehyde-3-phosphate dehyd triosephosphate isomerase (TPI) genes, complete cds	M.musculus p16K gene for 16 kDa protein	Ephydatia fluviatilis mRNA for aldolase, partial cds	P.salina plastid gene secY	Rattus norvegicus desmin (Des), mRNA		Fugu rubripes putative neurotransmitter recept transformylase (GART) rence	Synechocystis sp. PCC6803 com	Т	Г	Г	Mus musculus mRNA for prolidase, complete cds	Г	Г	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA	Homo sapiens gene for NBS1, complete cds	Human calicivirus HU/NLV/Girling	Human calicivirus HU/NLV/Girling	P.dumerilii histone gene cluster fo	Rattus norvegicus A-kinase anchor protein mRNA, complete cds	Botrytis cinerea strain T4 cDNA III	Botrytis cinerea strain T4 cDNA lik		- Homo sapiens adapter protein CMS mRNA, complete cds	Botrytis cinerea strain T4 cDNA lik	Rhodopseudomonas acidophila pu genes and ORF151		П	Carassius auratus keratin type mRNA campleta cds
JIE EKUII FI	Top Hit Database Source	FZ	L	FN	Z-Z	FZ	EST_HUMAN	LN LN	Į.	SWISSPROT	EST HUMAN	NT	N-	EST HUMAN	IN	F	NT .	NT	LN	FN	Ę	Z	١	EST_HUMAN	N	LN L	FX	EST_HUMAN	NT	Į.
	Top Hit Äcession No.	1.4E-01 U28760.1	1.4E-01 X52102.1	9.	1.4E-01 X74773.1	11968117 NT	1.4E-01 BE513802.1	1 4E-01 AF083221 1			1.4E-01 BE782738.1	11425031	D82983.1	1.4E-01 AW377998.1	4758467 NT	4758467 NT	1.3E-01 AB013139.1	1.3E-01 AJ277606.1	1.3E-01 AJ277606.1		1.3E-01 AF139518.1	1.3E-01 AL117078.1	1.3E-01 AL115265.1	7.1		8.1	1.3E-01 AJ243578.1			Г
	Most Similar (Top) Hit BLAST E Value	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.4E-01 P10447	1.4E-01	1.4E-01	1.4E-01	1.4E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3È-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01
	Expression Signal	2.23	3.02	1.48	232	1.89	1.82	3.01	229	3.28	1.41	1.42	3.41	1.77	2.69	2.69	1.86	0.89	0.89	1.09	1.83	1.55	2.23	1.07	1.36	2.56	1.29	1.17	2.99	3.49
	ORF SEQ ID NO:	28158			25277										20098	20099	20271	20369	20370	20603	20852	20771		20952		21689	,			22306
	Exon SEQ ID NO:	17913	18626	19517	19065	19073	19734	19156	19163	19754	19282	19332	19566	19398	10281	10281	10460	10557	10557	10753	10802	10928	11026	11107	11331	11811	12012	12129	12210	12416
	Probe SEQ ID NO:	8764	8813	9365	9413	9427	9470	9560	9573	9846	9762	9831	9850	9926	319	319	518	620	620	826	876	1010	1111	1197	1426	1916	2124	2245	2329	2542

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Top Hit Descriptor	MR4-BT0358-130700-010-h08 BT0358 Homo saplens cDNA	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds	Mus musculus cofflin 2, muscle (Cfl2), mRNA	601158052F1 NIH MGC_21 Homo sapiens cDNA clone IMAGE:3504804 57	601462741F1 NIH, MGC, 67 Homo septens cDNA clone IMAGE:3866003 5	Gailus gallus scyc1 gene for lymphotactin, exons 1-3	Ephydatia fluviatilis mRNA for sALK-8, complete cds	wu24d09.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520977 3' similar to TR:060287 060287 KIAA0539 PROTEIN	602078440F1 NIH_MGC 62 Homo saplens cDNA clone IMAGF-4253049 F	#39b02.x1 NCI_CGAP_Bm23 Homo saplens cDNA clone IMAGE:2098539 3' similer to gb:U06760_ma1 ANNEXIN V (HUMAN):	Dictyostellum discoldeum ORF DG1016 gene partial cde	Homo sapiens colon cancer antigen NV-CO-45 mRNA nariial cats	AU149146 NT2RM4 Homo sepiens cDNA clone NT2RM40016913	AU149146 NT2RM4 Homo sapiens cDNA clone NT2RM4001691 3'	AV735249 cdA Homo saptens cDNA clone cdAAJB11 5'	al48e09.s1 Soares_NFL_T_GBC_S1 Homo septiens cDNA clone IMAGE:1460584.3' similar to TR:Q16671 Q16671 ANTI-MULLERIAN HORMONE TYPE II RECEPTOR PREQIRSOR	NUCLEAR FACTOR OF ACTIVATED T-CELLS, CYTOPLASMIC 4 (T CELL TRANSCRIPTION FACTOR	MENTS (MENTS CAN DECONOMINATION OF THE MANAGEMENT	Histories DNA for endonphoris refunited life element	UI-H-BI3-aki-9-10-0-UI s1 NCI CGAP Sub5 Hamo saniens CDNA cione MAACE: 3724554 21	601821567F1 NIH_MGC 62 Homo sapiens cDNA clone IMAGE:4046224 5	Homo sapiens chromosome 21 segment HS21C013	QV3-BN0046-220300-129-f10 BN0046 Homo sapiens cDNA	ts18g07.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2228988 3' similar to TR:Q14048 Q14048 COLLAGEN VI ALPHA-2 ALTERNATIVE C-TERMINAL DOMAIN. [1] ;contains element PTR5 repetitive	element;	Human E1A enhancer binding protein (E1A-F) mRNA, partial cds	as80c09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2335024 3' similar to gb:L05095 60S RIBOSOMAL PROTEIN L30 (HUMAN);	Human creatine kinase-B mRNA, complete cds
Top Hit Database Source	EST HUMAN M	N P		EST_HUMAN 60	EST HUMAN 60	Γ	鱼	EST HUMAN TE	Т				T HUMAN	HUMAN	HUMAN	ald EST_HUMAN Q1		EST HIMAN	Т	Т	EST_HUMAN 60		EST_HUMAN QV		T_HUMAN	NT Hu	T_HUMAN	NT H
Top Hit Acession No.	BF330999.1	1.3E-01 AF119117.1	6671745 NT	1.3E-01 BE279449.1	1.3E-01 BE618346.1	1.3E-01 AJ242790.1	1.3E-01 AB026829.1	1.3E-01 AW001114.1	1.3E-01 BF571764.1	1.2E-01 Al421744.1		7.	_	-	1.2E-01 AV735249.1	1.2E-01 AA897474.1		1,0		38.1		1.2E-01 AL163213.2	3.1		-	1.2E-01 U18018.1	1.2E-01 AI720470.1	1.2E-01 M16364.1
Most Similar (Top) Hit BLAST E Vafue	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.3E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	10 HC 4	1.2E-01 A128540	1.2E-01	1.2E-01	1.2E-01	1.2E-01	1.2E-01	L	1.25-01	1.2E-01	1.2E-01	1.2E-01
Expression Signal	2.88	1.83	6.13	3.72	1.97	3.18	1.56	1.32	1.26	7.21	1.55	2.63	2.78	2.78	3.94	1.13	1 47	2.62	29.48	1.43	2.1	1.01	2.02		0.86	1.5	1.96	2.89
ORF SEQ ID NO:		28577			25320					20185			21117	21118			24377	21396			21919	22025	22310	2.00	72431	22537	22594	22628
Exon SEQ ID NO:	17921						19279	19297	19414	10362	9985	10476	11261	11261	11267	11395	11517	11535	11631	11773	12022	12124	12420	2.00	1007	12741	12799	12831
Probe SEQ ID NO:	8029	8444	8576	8873	9261	9399	9757	9784	9945	378	418	535	1355	1355	1361	1490	1613	1631	1730	1877	2134	2240	2546	7090	1607	2812	2872	2904

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oligie Lyon Flobes Expressed in near	Top Hit Descriptor	Wheat mRNA for a group 3 late embryogenesis abundant protein (I FA)	QV1-BT0259-261099-021-d05 BT0259 Homo saplens cDNA	Methanococcus jannaschii section 142 of 150 of the complete genome	Bacillus subtilis complete genome (section 15 of 21): from 2795131 to 3013540	Wheat mRNA for a group 3 late embryogenesis abundant protein (1 EA)	Wheat mRNA for a group 3 late embryogenesis abundant protein (LEA)	Bacillus subtilis complete genome (section 15 of 21): from 2795131 to 301354n	601810786R1 NIH MGC 46 Homo sablens cDNA clone IMAGE-405368 3	P.cłarkii mRNA; repeat region (ID 2MRT7)	P. clarkii mRNA; repeat region (ID 2MRT7)	HEMOLYSIN PRECURSOR	HYPOTHETICAL 52.4 KD PROTEIN C12810 08C IN CHROMOSOME 1	HYPOTHETICAL 52.4 KD PROTEIN C12810.08C IN CHROMOSOME!	UI-HF-BK0-gah-d-01-0-UI-1 NIH MGC 36 Homo saniens chwa clone IMAGE 2052647 F	2008d02.r1 Soares, parathyroid fumor NbHPA Homo sapiens cDNA clone IMAGE 323606 F	Homo sapiens gene encoding plakophilin (exons 1-13)	801493518F1 NIH MGC 70 Homo sapiens cDNA clone IMAGE: 3895813 5'	ILO-CT0031-221099-113-e04 CT0031 Homo saniens cDNA	Mouse galactosyltransferase mRNA, complete cds	PM3-BN0137-290300-002-109 BN0137 Homo sapiens cDNA	wc99g03.x1 NCI_CGAP_Co3 Homo sepiens cDNA clone IMAGE:2326804 3' similar to SW:GST2_HUMAN Q99735 MICROSOMAL GLUTATHIONE S-TRANSFERASE II	xx49d07.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2587597 3' similar to gb:M13452 LAMIN A (HUMAN);	Staphylococcus aureus plasmid pSK23 outative recombinase Sin (cin) nene nedal cela.	regulator QacR (cacR) and multidruc efflux profein OacB (nacR) renes complete ods.	Haemophilus Influenzae Rd section 29 of 163 of the complete genome	S.cerevisiae HXT5 gene	AV710857 Cu Homo saplens cDNA clone CuAAKF08 5'	Yeast MPT5 gene for suppressor protein, complete cds	601655578R1 NIH MGC 65 Homo seciens cDNA clone IMAGE:3846283 3'	601900763F1 NIH MGC 19 Homo sapiens cDNA clane IMAGE-4130103 5	Homo sapiens dynein intermediate chain DNAI1 (DNAI1) gene, exon 17
gie Laui Flui	Top Hit Database Source	TN	EST HUMAN	TN	TN	N	NT	PN	EST HUMAN	LN.	k	SWISSPROT	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	Z Z	EST HUMAN	EST HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN		N	N	N	EST HUMAN	LN	EST HUMAN	EST_HUMAN	NT
5	Top Hit Acession No.	X56882.1	1.2E-01 AW370668.1	1.2E-01 U67600.1	299118.1	K56882.1			3F128551.1			716466	210441	210441	1.2E-01 AW 401836.1			1.2E-01 BE620945.1	5.1		1.2E-01 BE007072.1	1913753.1	1.2E-01 AW083652.1		7			-		2	-	-
	Most Similar (Top) Hit BLAST E Value	1.2E-01 X56882.1	1.2E-01	1.2E-01	1.2E-01 Z99118.1	1.2E-01 X56882.1	1.2E-01 X56882.1	1.2E-01 Z99118.1	1.2E-01 BF128551	1.2E-01 Z54255.1	1.2E-01 Z54255.1	1.2E-01 P16466	1.2E-01 Q10441	1.2E-01 Q10441	1.2E-01	1.2E-01 W33035.1	1.2E-01 Z98266.1	1.2E-01	1.2E-01 AW84527	1.2E-01 M26925.1	1.2E-01	1.2E-01 AI913753.	1.2E-01		1.2E-01 AF053772	1.2E-01 U32714.1	1.2E-01 X77961.1	1.2E-01 AV710857	1.2E-01 D26184.1	1.2E-01 BE962324	1.2E-01 BF314481	1.2E-01 AF190493
	Expression Signal	0.98	2	26.0	0.79	1.14	1.14	1.2	88.0	2.2	2.2	1.04	1.47	1.47	2.47	2.63	1.9	1.69	2.19	1.56	121	2.46	9.72		3.86	2.27	1.5	1.51	2.95	3.35	1.93	2.6
	ORF SEQ ID NO:	22700	52623			23198	23199			23766	23767		24807	24808		24947	25021	25776	25824	25858		26715					27546	27819				28715
	Exon SEQ ID NO:	12901	13117	13143	13350	13393	13393	13350	13617	13990	13990	14886	16040	15040	15062	15174	15218	15669	15711	15745	16487	16522	16772		16782	16920	17340	17597	18140	18291	18360	18447
	Probe SEQ ID NO:	2974	3192	3219	3433	3477	3477	3554	3704	4090	4090	5012	5174	5174	5189	5251	5297	5762	2806	5839	6607	6642	6893		6904	7043	7521	7747	8260	8417	8487	8579

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SEQ ID SEC NO:	Single Exon Probes Expressed in Heart	ORF SEQ Expression (Top) Hit Top Hit Acession ID NO: Signal BLASTE No. Source Surce	3612 2.02 1.2E-01 M65109.1 NT Rabbit divoden-associated protein phosphatase requisitors with military and months and months and months and months and months are not a second and a second	2.22 1.2E-01 AV658033.1 EST HUMAN	2.78 1.2E-01 AJ271736.1 NT	24897 2.58 1.2E-01 004912 SWISSPROT	7.69 1.2E-01 AF039442.1 NT	1.41 1.2E-01 X53981.1 NT	24903 2.36 1.2E-01 BE061418.1 EST HUMAN	25231 3.68 1.2E-01/AI299903.1 EST HUMAN	2.07 1.2E-01 L10187.1 NT	4.72 1.2E-01 096433 SWISSPROT	2.18 1.2E-01 BF314481.1 EST HUMAN	20301 0.95 1.1E-01 AI561003.1 EST HUMAN	20344 3.38 1.1E-01 AA569006.1 EST HUMAN	20799 1.53 1.1E-01 BF697308.1 EST HUMAN	1.29 1.1E-01/AL161560.2 NT	20899 4.06 1.1E-01 AW972158.1 EST HUMAN	20990 1.72 1.1E-01 D64004.1 NT	21267 2.47 1.1E-01 AU140363.1 EST HUMAN	2.25 1.1E-01 6755215 NT	1.17 1.1E-01 6978676 NT	1.17 1.1E-01 AW821909.1 EST_HUMAN	22546 1.84 1.1E-01 S82418.1 NT	22717 0.8 1.1E-01 F03265.1 EST_HUMAN	1.39 1.1E-01 6753231 NT	23092 3 1.1E-01 BE393186.1 EST_HUMAN	23123 1.54 1.1E-01 X62135.1 NT	23246 0.94 1.1E-01 Y07695.1 NT	23348 1.23 1.1E-01 X52708.1 NT	23698 1.31 1.1E-01 AW819412.1 EST HUMAN	1.31 1.1F-01 AWR19419 1 EST HIMANI
		ORF SEQ ID NO:				24897			24903	25231				20301	20344	20799		20899	20990	21267				22546	22717		23092	23123	23246	23348	23698	22600
- 1 1 (Selection) del Malla (Allanderia in lusion in in in in in in in in in-							L																	ŀ		- 1	- 1	_1				

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r			_	_	_			_		-	-	_	_		<u>.</u>				_	_		_					_		_	_		_	
	Top Hit Descriptor	yh34h06.r1 Scares placenta Nb2HP Homo sapiens cDNA clone IMAGE:131675 5' similar to contains Alu repetitive element,	M.musculus whn gene	Rattus norvegicus synaptic SAPAP-interacting protein Synamon mRNA, complete cds	Human pro-alpha-1 (V) collagen mRNA, complete cds	Helicobacter pylori, strain J99 section 62 of 132 of the complete genome	601905661F1 NIH MGC 54 Homo sapiens cDNA clone IMAGE:4133487 51	Homo sapiens mRNA for KIAA1579 protein, partial cds	Homo sapiens mRNA for KIAA 1579 protein, partial cds	601584604F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE:3939096 5'	AU159127 THYRO1 Hamo sapiens cDNA clone THYRO10008953'	601877703F1 NIH MGC 55 Homo sapiens cDNA clone IMAGE:4106089 51	601877703F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:4106089 57	601582558F1 NIH MGC_7 Homo sapiens cDNA clone IMAGE:3936734 5'	601065554F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451933 51	Homo sapiens KIAA0514 gene product (KIAA0514), mRNA	Drosophila melanogaster ftz gene	Gonyaulax polyedra putative type-1 serine/threonine phosphatase (PP1) mRNA complete cris	601065554F1 NIH MGC 10 Homo sepiens cDNA clone IMAGE: 3451033 51	Saccharomyces cerevisiae suppressor of ABF1 (SAB2) gene. complete cde	Zea mays mRNA for Toc34-2 protein (toc34B gene)	Bacillus halodurans genomic DNA, section 1/14.	Drosophila melanogaster cAMP-dependent protein kinase type II regulatory subunit (pka-RII) mRNA,	GRANZINSTER CAS IN INC. 42 Home company - Data - In the Company -	SOLOTORIO I NIL MODI IZ TIGILI SEPIETE CUINA GONE IMAGE: 3406365 5	AV730747 HTF Home septem CDNA class UTFPNING F	Homo sapiens neurewin III-alpha gene northal reference	7477c12.x1 NCI CGAP Lu24 Homo seniens cDNA clone NAACE: 22776000 21	Aspergillus terreus BSD mRNA for blasticidin S deaminase complete cde	Mus musculus phospholipid transfer protein (Pltp.) mRNA	O.sativa RÁmy3C gene for alpha-amylase	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRNA	Daucus carota leucoanthocyanidin dioxygenase 2 (LDOX) mRNA, LDOX-2 allele, complete cds
	Top Hit Database Source	EST HUMAN	NT.	M	F	NT	EST HUMAN	LN	F	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	1	N	NT.	EST HUMAN	N	N	NT	Ę	EST HIMAN	Т	HI IMAN	1	Т	E		F		L
	Top Hit Acession No.	R23821.1	1.0E-01 Y12488.1	1.0E-01 AF102855.2	1.0E-01 M76729.1	1.0E-01 AE001501.1	1.0E-01 BF240164.1	1.0E-01 AB046799.1	1.0E-01 AB046799.1	1.0E-01 BE792750.1		ļ		1.0E-01 BE790543.1	1.0E-01 BE537719.1	7662165 NT	X00854.1	J52691.1	7.		1.0E-01 AJ271049.1	1.0E-01 AP001507.1	0 05 02 45274008 4	Ī	Ţ.		-			6755111 NT		4503224 NT	Ţ.
	Most Similar (Top) Hit BLAST E Value	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01	1.0E-01 X00854.1	1.0E-01 U52691.1	1.0E-01	1.0E-01 U66834.1	1.0E-01	1.0E-01	0 10 0	9 9F-02	9 OF 02	9.9E-02/	9.9E-02/	9.9E-02	9.9E-02 D83710.1	9.9E-02	9.8E-02 X56338.1	9.8E-02	9.8E-02 AF184274
	Expression Signal	1.88	2,45	1.16	1.8	2.73	1.84	9.08	9.08	1.26	2.02	2.9	2.9	4.43	2.5	1.34	2.03	2.57	2.46	8.59	1.28	4.16	5	144	1 44	0.92	1.15	22.55	7.96	1.5	1.58	1.53	3.28
	ORF SEQ ID NO:			27376			27724	27788	27789	28007		28520	28521	28803							25187		22505	22511	22512	22675	22952	24260	24862	27440		21482	22827
	Exon SEQ ID NO:	16072			17333		17501	17563	17563	17768	17941	18269	18269	18521	19285	19085	19098	19688	19285		19360	.19363	12814	12619	12619	12877	13153	14472	15118	17236	10492	11612	13032
	Probe SEQ ID NO:	6187	6549	7299	7473	. 7505	7651	7713	7713	7918	8050	8393	8393	8703	9226	9453	9469	9735	9765	9818	9871	228	2752	2757	2757	2950	3229	4582	6161	7332	551	171	3106

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Probe SEQ ID NO: NO: 1328 1328 1328 1328 1328 1328 1328 1328	Exan SEQ ID NO: 14031 11235 11235 11240 11862 11862 11862 11862 11862 11862 11862 11862 11862 11862 11862 17627 17627 17627 17627 17627 17627 17627 17627 17627 17689 17736 18013	ORF SEQ ID NO: 23805 23806 23806 28148 21092 26731 26732 21754 24778 24780 27855 27855 27856 27834 27856	Signal Signal Signal Signal Signal 6.67 6.67 2.11 1.59 1.35 6.02 6.02 6.02 6.02 6.02 6.02 6.02 6.02	Most Similar (Top) Hit PLAST E Value 9.8E-02 AF257322 9.8E-02 AF257322 9.8E-02 AF257322 9.7E-02 BE16866 9.7E-02 AB053684 9.7E-02 BE910039 9.6E-02 AB053684 9.6E-02 AB053684 9.6E-02 BE910039 9.6E-02 BE94896 9.6E-02 AB053884 9.6E-02 BE94896 9.6E-02 AB053884 9.6E-02 AB053884 9.6E-02 AB053884 9.6E-02 AB053884 9.6E-02 AB053885 9.6E-02 AB053885		Top Hit Database Source Source Source Source THUMAN	Top Hit Descriptor Top Hit Leptosphaeria macudans bela-tubulin nRNA, complete ods Source Source Source Source Leptosphaeria macudans bela-tubulin nRNA, complete ods NT Leptosphaeria macudans bela-tubulin nRNA, complete ods NT Leptosphaeria macudans bela-tubulin nRNA, complete ods NT Abe arborescens mRNA for NADP-malic enzyme, complete ods NT Abe arborescens mRNA for NADP-malic enzyme, complete ods NT Abe arborescens mRNA for NADP-malic enzyme, complete ods NT Homo sepiems fibroblast growth factor receptor 3 (earhondropsas, thanalophort dwarfism) (FGFR3) mRNA SWISSPROT GELL SURFACE X33 ANTIGEN PRECURSOR (GLYCOPROTEIN A33) EST HUMAN WATGOS ST Weatmann Olfactory Eithellum Homo sepiems cDNA NT Bacillus subfilis complete genome (section 16 of 21); from 2891771 to 32/3410 EST HUMAN WATGOS ST Weatmann Olfactory Eithellum Homo sepiems cDNA clone IMAGE:254788 3* WATBOS XI NOL CGAP DOSS Homo sepiems cDNA clone IMAGE:254788 3* WATBOS XI NOL CGAP DOSS Homo sepiems cDNA clone IMAGE:254788 3* WATBOS XI NOL CGAP DOSS Homo sepiems cDNA clone IMAGE:254788 3* WATBOS XI NOL CGAP DOSS Homo sepiems cDNA clone IMAGE:254788 3* WATGOS ST Weatmann Olfactory Eithellum Homo sepiems cDNA clone IMAGE:254788 3* WATGOS ST WEATMANN WATGOS ST Weatmann Olfactory Eithellum Homo sepiems cDNA clone IMAGE:354788 3* WATGOS ST HUMANN WATGOS ST Weatmann Olfactory Eithellum Homo sepiems cDNA clone IMAGE:354788 3* NT MAB mucculus injectified format sepiems cDNA clone IMAGE:3519363 5* NT HOMO SETTIFICATION CONTRACTOR OF THE WATGOS ST WEATMANN SET HUMANN ST WEATMANN ST WEATMANN ST WEATMANN ST HUMANN ST WEATMANN ST WEAT
9798 9848		26212	1.38	9.6E-02 H14599.1 9.6E-02 BE728219	114599.1 SE728219.1	П	MATCH 1.51 Scares resus_NH I Homo sepiens cDNA clone IMAGE:745392 3' ym19h03.s1 Soares infant brain 1NIB Homo sepiens cDNA clone IMAGE:48653 3'
4012	1.1	23894	2.25	9.5E-02 A	52.1	HUMAN	001303355F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832908 5' CM2-BN0023-050200-087-f12 BN0023 Homo sapiens cDNA
אחחה	1	44104F	0.87	9.5E-02 U63374.1		눌	Lycopersicon esculentum polygalacturonase iscensyme 1 hete cultumit constitution of the contract of the contra

Page 86 of 413 Table 4 Single Exon Probes Expressed in

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19602 1.95 9.3E-02 AF100956.1 NT 10197 20008 4.32 9.2E-02 U60315.1 NT 10197 20010 4.32 9.2E-02 U60315.1 NT 10197 20010 4.32 9.2E-02 U60315.1 NT								Mus musculus major histocompatibility locus class II region: Fas-binding protein Dary (DAXX) gene partial
10197 20010 4.32 9.2E-02 HT100956.1 N	9806			100	L		!	cds; Bing1 (BING1), tapasin (tapasin), RalGDS-like factor (RLF), KE2 (KE2), BING4 (BING4), beta1. 3-
10197 20010 4.32 9.2E-02 U60315.1 NT 10197 20010 4.32 9.2E-02 U60315.1 NT	800		00000	8.6	8.3E-02		- 2	galactosyl transferase (beta1,3-galactosyl tr>
10197 20010 4.32 9.2E-02 U60315.1 NT	228	10197	2000	4.32	8.ZE-02		Z	Wolluscum contagiosum virus subtype 1, complete genome
10137 20010 4.32 8.2E-02[U60315.1 [NT	338	10107	2003	1.00	8.ZE-0Z		2	Molluscum contagiosum virus subtype 1, complete genome
		2	101002	1.02	8.2E-UZ		Į.	Molluscum contagiosum virus subtype 1, complete genome

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Single Exon Probes Expressed in Heart

					<u>.</u>	חום ביצמנו נינו	Single Exon Plobes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2180			2.2	9.2E-02	9.2E-02 R54156.1	EST HUMAN	y998f07.r1 Soares infant brain 1NIB Homo sapiens CDNA clone MAACE 21818 F
3142	13067		4.53	9.2E-02 Q28631	Q28631	SWISSPROT	MAJOR EPIDIDYMIS-SPECIFIC PROTEIN E4 (FPIDIDYMA) PROTEIN BE 201
3265		22986	1.16	9.2E-02	9.2E-02 AA534354.1	EST HUMAN	nf/9e01.s1 NCI CGAP Co3 Homo saniens cDN4 clone 144 CE-02428 3
3537	13453		1.12	9.2E-02	6755215INT	K	Mus musculus pre T-cell anticen recentor alpha (Pters) mBNA
4145	14045		1.34	9.2E-02	U92048.1	IN.	Human herpesyirus 1 strain KOS-63 latency associated transmits associated
4211	14109		1.02	9.2E-02	9.2E-02 BE299722.1	EST HUMAN	600944365F1 NIH MGC 17 Homo saniens cDNA clone IMAGE:つのの478 定
4538	14431	24213	1.86	9.2E-02	9.2E-02 X96402.1	TN	Ggallus Mia-CK gene
6670	16550	26746	. 1.86	9.2E-02	9.2E-02 T49920.1	EST HUMAN	ye99c09.r1 Stratagene placenta (#837225) Homo sapiens cDNA clone IMAGE:69808 5 similar to similar to db.X56009 GtJANINF NI ICI FOTTIDE PININING DEOTTERN CASA AL PARA CLARININE NI ICI FOTTIDE PININING DEOTTERN CASA AL PARA CLARININE NI ICI FOTTIDE PININING DEOTTERN CASA AL PARA CLARININE NI ICI FOTTIDE PININING DEOTTERN CASA AL PARA CLARININE NI ICI FOTTIDE PININING DEOTTERN CASA AL PARA CLARINING DE CASA AL P
6756			2.07	9.2E-02	9.2E-02 X95256.1	LN FN	H.Vuldare xxlose isomerase dense
417	9984	19776	2.77	9.1E-02		N	O. cunjoulus K12 keratin nema
2365	12245	22139	1.01	9.1E-02 P78985		SWISSPROT	6-PHOSPHOFR ICTOR INASE (PHOSPHOFP) ICTOR INVESTIGATION IN THE CONTRACTOR IN THE CON
3618	13532		1.14	9.1E-02	569.1	EST HUMAN	PM2-BT0349-161299-001-402 RT0349 Homo centens china
4383	14279	24058	1.81	9.1E-02,		L	Arabidopsis thaliana DNA chromosome 4 confinitionment No. 64
6507	15425	25487	1.73	9.1E-02	9.1E-02 AF129766.1	Į	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G6b, G6d, G6e, G6f, BAT5, G5b, CSK28 BAT4 G4 Ann M BAT2 BAT2 AND AIR 4 402 102 102 102 102 102 102 102 102 102 1
6372	16234	26393	11.89	9.1E-02	-	EST HUMAN	8u/7405 vt Schneider fetal brein 00007 Unes and 1000 Hills 100 Hills 100 Hills 200 Hil
7958	17808		1.65	9.1E-02 T02984.1		J)	F819F10 Fetal brain Stratanana Home earliers of NA Ann. FB10F10 C.
9021	18815		1.29	9.1E-02	9633494	1	Bacteriophage Mu. complete genome
9256	19692		1.52	9 1F-02	9 1F.02 AA170001 1	TOT LINAM	주어8h12.s1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:611783 3' similar to
9785	19548		5.63	9.1E-02/	-	IN	Homo saplens partial MUC3B dane for MI IC3B minch aware 1.11
			·				FOLATE RECEPTOR ALPHA PRECURSOR (FR-ALPHA) (FOLATE RECEPTOR 1) (FOLATE
727	10659	20490	3.36	9.0E-02 P15328		SWISSPROT	ANTIGEN MOV18) (KB CELLS FBP)
1817		21379	6.45	9.0E-02	9.0E-02 BE220482.1	EST HUMAN	h/39g10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175842 3' similar to contains Alu repetitive element
2772		22528	1.11	9.0E-02	L	T	HIV-1 p8c095-06 from USA envelone obsconnotein (em) sens martial ada
2772	_ [22629	1.11	9.0E-02	-	TN	HIV-1 p8c095-06 from USA envelope discontate in ferry gene, partial officer
3294	- 1	23018	0.92	9.0E-02/	9.0E-02 AF279135.1	NT.	Dichostelium discoldeum spore coal structural protein SPAF (AAE) gans, American
4202	ı	23883	0.8	9.0E-02 S68757.1			caticosteroid-binding globulin (Salmin schrens=schirma markens, ling, mBNA 4274)
4202	1	23884	8.0	9.0E-02 S68757.1			carticosteroid-binding globulin [Salmiri sciureus≘sanime] monkeus, linen → DN ∧ 4.74 – n
4321	14218	24001	1.2	9.0E-02 P55268		SWISSPROT	LAMININ BETA-2 CHAIN PRECURSOR (S-LAMININ)

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Single Exon Probes Expressed in Heart

sed in Heart	Top Hit Descriptor	laciparum P-type ATPase 3 gene	RY PROTEIN ZESTE	za88a12.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:297694 5' similar to PIR:S52171 S52171 small G protein - human :	s chromosome 16 open reading frame 5 (C16orfs) mRNA	2 NIH MGC 56 Homo sagiens cDNA clone IMAGE-408864 5	NIH MGC 56 Homo sapiens cDNA clone IMAGE-428561 5	-25/199-003-d01 HT0339 Home saniens cDNA	ustatum AtranFlo2 protein (AtranFlo2) gene nartial cas	zw03d04.s1 Soares NhHMPu S1 Homo saplens cDNA clone IMAGE-788100 3	UFH-BI3-alo-f-08-0-UI.s1 NCI CGAP Sub5 Homo serviens cDNA clone IMAGE:3088204 3	Ul-H-Bi3-alo-f-08-0-Ul.s1 NCI CGAP Sub5 Homo saniens china clone MACE: 3058204.3	s similar to endodycan (H. sapiens) (LOC63107), mRNA	FOLD BIFUNCTIONAL PROTEIN (INCLUDES: METHYLENETETRAHYDROFOLATE	HONOGENASE; METHENYLIE IRAHYDROFOLATE CYCLOHYDROLASE]	۸-sorted chromosome 6 Hindlil fragment, SC6pA20F8	AIH MCC 58 Home Calculum CNN 11 MCC 68 Home CNN 11	PROBABILE DINA I IGASE (POI VDEOXVEIBONILO) EQUIDE EXAMENA CE TATEM	erus Homo sapiens cDNA 5'end	TRANSCRIPTION INITIATION FACTOR TFIID 135 KDA SUBUNIT (TAFIL135) (TAFII135) (TAFII-130)	s baired box gane 6 (anirdia keraitits) (DAYS) inclum	2099805.51 Stratagene colon (#037204) Homo caplene child Alone IAAA Chilescope 21	NIH MGC 7 Homo sapiens cDNA clone IMAGE: 3535648 F	NIH MGC 7 Homo saniens cDNA clone IMAGE 388868 8	DKFZp434D1313 r1 434 (synchym: htes3) Homo saniens cDNA clone DKFZp434D4343 E	Tromosome XIV reading frame ORF YNI 285w	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN)	genes, complete cas; and plasma membrane calcium ATPase Isoform 3 (PMCA3) gene, partial cds	Homo sapiens zinc finger protein 92 (ZFP92), expressed-Xq28STS protein (XQ28ORF), and biglycan (BGN) genes, complete cds; and plasma membrane calcium ATPase isoform 3 (PMCA3) gene, partial cds
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Plasmodium falciparum P-twee ATPase 3 gene	REGULATORY PROTEIN ZESTE	za88a12.r1 Scares_fetal_lung_NbHL19W Homo sapiens cDNA clone lN PIR:S52171 S52171 small G protein - human	Homo sapiens chromosome 16 coen reading frame 5 (C16offs) mRNA	602129030F2 NIH MGC 56 Homo sapiens cDNA clone IMAGE:4285951 F	602129030F2 NIH MGC 56 Homo sapiens cDNA clone IMAGE-4285951 5	PM0-HT0339-251199-003-d01 HT0339 Home saniens CINA	Atrichum angustatum AtranFlo2 protein (AtranFlo2) gene partial cols	4.s1 Soares NhHMPu S1 Homo saplens cDNA clone IMAGE:7	3-alo-f-08-0-UI.s1 NCI CGAP Sub5 Homo sariens cDNA clone	3-alof-08-0-Ul.s1 NCI CGAP Sub5 Homo saniens cDNA clone	Homo sapiens similar to endoglycan (H. sapiens) (LOC63107) mRNA	BEUNCTIONAL PROTEIN (INCLUDES: METHYLENETETRAH	SCHOOL STATE OF THE STATE OF TH	in.sapiens now-sorted chromosome 6 Hindill fragment, SC6pA20F8 EST1801871 liver honetocollides and in the second s	802/20682F1 NIH MOC 56 Home Calculation of the Control of the Cont	BI F DNA 1 (GASE (POI VDEOXYBIBONI IX) EQTIDE SYNTHA	EST 11595 Uterus Homo sapiens CDNA 5' end	CRIPTION INITIATION FACTOR THIID 135 KDA SUBUNIT (T	Homo sabiens paired box dene 6 (anicidia keraitits) (DAYS) income habbia	5.51 Stratagene colon (#9372/14) Homo september CDNA close (MA)	601191770F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE 3535648 &	601191770F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE 3535648 F	34D1313 r1 434 (synonym: hies3) Homo sapiens cDNA close F	S. cerevislae chromosome XIV reading frame ORF YNI 285w	apiens zinc finger protein 92 (ZFP92), expressed-Xq28STS prote	omplete cds, and plasma membrane calcium ATPase isoform 3 (aplens zinc finger protein 92 (ZFP92), expressed-Xq28STS protei omplete cds; and plasma membrane calcium ATPase isoform 3 (
opes Ex		Plasmo	REGU		Г	Т	Γ	Τ	T	Г	Т	П	Homos	FOLD		FCT18	802120	PROBA	EST11	TRANSCR (TAEI1130)	Homos	zn99a0	601191	601191	DKFZp	S.cerevi	Homos	garag.	Homo si genes, o
Jie Exon Pr	Top Hit Database Source	F	SWISSPROT	EST HUMAN	7	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	N		ON ISSUED	EST LINAN	EST HIMAN	SWISSPROT	EST HUMAN	TOBOSINIS	IN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	} 	2	Ā
CID	Top Hit Acession No.	9.0E-02 X65740.2	9.0E-02 Q24597	9.0E-02 W56037.1	11431759 NT	8.9E-02 BF701593.1	8.9E-02 BF701593.1	8.9E-02 BE153572.1	8.9E-02 AF286055.1	8.9E-02 AA424887.1	8.9E-02 AW452122.1	8.9E-02 AW 452122.1	11433478 NT	047050	-	01	8.9E-02 RF696918 1	8.8E-02 027474	8.8E-02 AA299128.1		4580423	8.8E-02 AA151872.1	5.1			8.8E-02 Z71561.1			8.7E-02 U82695.2
	Most Similar (Top) Hit BLAST E Value	9.0E-02	9.0E-02	9.0E-02	9.0E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	8.9E-02	9 OF 02 D47250	20 HO 8	8.9E-02	8.9E-02	8.8E-02	8.8E-02	8 RF-00 COOPER	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8.8E-02	8 7E 03	0.11	8.7E-02
	Expression Signal	1.79	1.06	8.02	15.35	2.15	2.15	1.41	1.71	0.92	3.3	3.3	3.13	. 4	1 83	5.28	4.03	1.25	96.0	3.24	1.13	1.83	3.19	3.19	10.63	1.38	8	7000	3.02
	ORF SEQ ID NO:	24248	24780	25653		21189	21190	22117		24208	25559	25560	25568	26200		27068		21113	23532			27260	28596	28597	28722	25332	28882		23338
	Exon SEQ ID NO:	14460	15009	15560	19428	11325	11325	12218	14004	14427	15485	15485	16491	16135	16320	16875	18949	11257	13740	13856	14104	17072	18334	18334	18453	19001	13550		13550
	Probe SEQ ID NO:	4568	5142	5647	2967	1419	1419	2338	4104	4534	5569	5569	5576	6270	6460	8669	9228	1351	3828	3948	4205	7195	8461	8461	8585	9302	3636		3636

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Single Exon Probes Expressed in Heart	Most Signal (Top Hit Acession Signal Plass No. Signal Value Source Superstance of the Property	3.07 8.5E-02] BE833054.1 [EST HUMAN RC4-010037-200700-014-e05 OT0037 Homo serious cINA	3.07 8.5E-02 BE833054.1 EST HUMAN	11.15 8.5E-02 AF155510.1 INT	4.07 8.5E-02 AB001562.1 NT	IN	8.5E-02 AA362934.1 EST HUMAN	4.24 8.4E-02 W69330.1 EST HUMAN	7.82 8.4E-02 BE267153.1 EST HUMAN	1.71 8.4E-02 AK024458.1 NT	8.11 8.4E-02 BE095074.1 EST_HUMAN	1.44 8.4E-02 A1735184.1 EST HUMAN	0.86 8.3E-02 5835680 NT	0.86 8.3E-02 5835680 NT	6.19 8.3E-02 P75334 SWISSPROT	0.88 8.3E-02 AI436797.1 EST HUMAN	0.88 8.3E-02 AI436797.1 EST HUMAN	2.82 8.3E-02 AF052683.1 NT	3.42 8.3E-02 AF195787.1 NT	EST HUMAN	EST HUMAN	1.44 8.3E-02 AW583503.1 EST HUMAN	Z NT	EST HUMAN	7.82 8.2E-02 Y08170.2 NT	1.21 8.2E-02 AF167077.2 NT	2 NT	2 NT	1.11 8.2E-02/AL163206.2 NT	5.36 8.2E-02 P48960 SWISSPROT	5.36 8.2E-02 P48960 SWISSPROT	5.36 8.2E-02 P48960 SWISSPROT
					L					L																						
	ORF SEQ ID NO:	17511 27737	17511 27738	18369	18384 28649	19488	19339			15923 26053	16560 26755	17781 28020	11859 21748	11859 21749	13460 23254	181 23271	181 23272	15746 25859	16533 26728	151	80.	168 27573	94	95		85 21248	64	45	35 23615			87 23864
	Probe Exan SEQ ID SEQ ID NO: NO:	7661 17	7661 17	8496 18				2632 127	- 1		6680 165			1965 118	Ш		3567 13481	5840 157	8653 165	6671 16551	6829 16708	7498 17368	7506 17294					3733 13645	3926 13835	4187 14087		4187 14087

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Single Exon Probes Expressed in Heart	Top Hit Descriptor Source	Mus musculus zinc transporter (ZnT-3) gene, complete cds	Т	Г	HUMAN RC2-PT0004-031299-011-d05 PT0004 Homo seniens cDNA	Г	Т	П	Mus musculus epidermal growth factor receptor (Egfr) gene, exons 5 through 28, and complete cds, alternatively spliced	Pseudomonas putida malonate decarboxylase gene cluster (mdcA, mdcB, mdcD, mdcD, mdcE, mdcG, mdcH, mdcL, and mdcM genes) commiste cde	Homo saciens extracellular divectorities in lacrification and complete and	Homo sapiens chromosome 21 segment HS21Cnn2	HUMAN EST366723 MAGE resequences, MAGC Homo saniens china	Molluscum contagiosum virus subtype 1. complete genome	Human gene for dihydrolipoamide succinvitransferase complete ons (avan 1.15)				Synechocystis sp. PCC6803 complete gename, 17/27, 2137259-2287259		Dictyoselium discoideum cyclic nucleotide phosphodiesterase gene, complete cds			Homo sapiens cAMP responsive element binding protein-like 2 (CREBL2) mRNA	M.musculus gene for gelatinase B	Herpesvirus sainlit transformation-associated protein (STP), and dihydrofolate reductase (DHFR) gene,s complete cds. and small mirriear BNAs ("IRNA»)	Homo sapiens ABCA1 (ABCA1) gene, complete cds	Homo sepiens ABCA1 (ABCA1) gene, complete cds	Botytis cinerea strain T4 cDNA library under conditions of nitrogen dentivation	H.saplens AGT gene, intron 4
Single Exon	Top Hit Acession Databa	1009.1	397030.1 EST HUMAN	5.1	26.1 EST	LN.	254318.1 EST HUMAN	5.2	75366.1 NT	17138.1 NT	1.	22	EST		535.1 NT		67219.1 EST_HUMAN		915.1 NT	46744.1 EST_HUMAN		.1		4503034	794.1 NT	071.1 NT			.1	8.0E-02 X74208.1 NT
	Most Similar (Top) Hit BLAST E Value	2 8.2E-02 U76009.	3 8.2E-02 BE89703			3 B.2E-02 X04197.1	1 8.2E-02 BE25431	3 8.2E-02 AE00224	4 8.2E-02 AF275366.1	2 8.1E-02 AB01713			8 8.0E-02 AW954653.1	3 8.0E-02 U60315.1	4 8.0E-02 D26535.1										2 8.0E-02 X72794.1	8.0E-02 M28071.1		3 8.0E-02 AF275948.1		
-	Expression Signal	5 2.82		3.14		5.33	9 2.11	6 4.13	1.84	1.72		3.38		1.33		¥			1.01					1.06	5.62	0.87	3.35	1.63		1.49
	ORF SEQ ID NO:	3 24655	3 24968	3 26222			66922	3 25336		21247			19784						22104			22591				24499	25581			27471
	Exon SEQ ID NO:	4 14888						19006	3 19480	11384	Н				\Box			┙	╝	_1					14595					17268
	Probe SEQ ID NO:	5014	5271	6188	7094	7536	7628	9314	9706	1479	7703	8789	5	920	1671	1671	1861	232	2323	2421	2790	2870	3745	3980	4/09	4834	5591	6261	6727	7401

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				_	-			_,																	
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related protein 1 (ARFRP1) nenes complete and	Diosophila orena hunchhack radion	Homo eapiens cAMP responsive element hinding protein like 3 (OBEB) 37 - 13114	Mus musculus Ranbp7 gene, Staf gene and Weet gene	600943191F1 NIH MGC_15 Homo sapiens cDNA clane IMAGE 2050510 F	ar88c08.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2173646 3' similar to gb:Z26876	Mus musculus colony stimulating feather 1 popularis (2004-) DNIA	Mus musculus crops stimulating factor 1 pagette (0.51.1), IIIRNA	602019770F1 NCI CGAP Brief Home emiser CNN str. 111 CT. 1175.55	Arabidonsis (trailing BXW2di mDNA control cont	Saccharomyces ceravisiae suppresent of AIE2 Sent (CAIT)	ou63b05.s1 NCI_CGAP_Brz Homo sepiens cDNA done IMAGE:1632465 3' similar to WP:C37A2.2	ou63b05.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632465 3' similar to WP:C37A2.2 CE08611	oo59d02.y5 NCL_CGAP_Lu5 Homo saplens cDNA clone IMAGE:1570467 5' similar to contains L1.t3 L1 repetitive element	oo59d02.y5 NCI_CGAP_Lu5 Homo sepiens cDNA clone IMAGE:1570467 6' similar to contains L1.t3 L1	PM3-ENDOSB-140700-00-500 ENDOSB Home Control PM3-ENDOSB-140700-00-00-00-00-00-00-00-00-00-00-00-00	600943055F1 NIH MGC 15 Homo sepiens CDNA clone IMAGE 7050502 57	tg48g12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112070 3' similar to contains MER10.t3 MER10 repetitive element:	Homo saplens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete ods	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1b mRNA, complete	nosbiogra NCI CGAP Pri Homo soniona anni a la l	Homo sapiens WRN /WRN) dens complete collective collect	Homo sablens partial AF-4 cene, exons 2 to 7 and All renect elements.	zu53d11.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:741717 5' similar to TR:G1173905 G1173905 SPLICEOSOME ASSOCIATED PROTEIN.
gie Exon Pro	Top Hit Database Source	L L	N.	N	NT L	EST_HUMAN	EST HUMAN	LN	L	EST HUMAN	LN	F	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	۲N	Į.	EST HUMAN	LN	N	EST HUMAN
מנול	Top Hit Acession No.	8.0E-02 AF217796.1	8.0E-02 AJ005375.1	4503034 NT	8.0E-02 AJ278435.1	7.9E-02 BE250008.1	7.9E-02 AI582029.1	6681044 NT	6681044 NT	7.9E-02 BF348454.1			-		-		-		7.8E-02 AI418520.1	7.8E-02 AF233437.1	_	-	-	-	7.7E-02 AA402949.1
	Most Similar (Top) Hit BLAST E Value	8.0E-02	8.0E-02	8.0E-02	8.0E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.9E-02	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.8E-02	7.7E-02 AF181897	7.7E-02	7.7E-02
	Expression Signal	7.42	2.94	1.47	3.04	3.98	6.43	3.31	3.31	1.06	1.16	3.25	5.68	5.68	1.43	1.43	0.81	2.71	1.04	2.06	2.06	1.27	+	2.09	4,4
	ORF SEQ ID NO:	28310				21913	22673		23472	24269		26756	27838	27839	20947	20948	24371		24825	27306	27307	27513	21139		26682
	Exon SEQ ID NO:	18060	19023	13887	19854	12015	12875	13688	13688	14483	14592	16562	17612	17612	11102	11102	14574	13603	15060	17113	17113	17307	12693	13454	16495
	Probe SEQ ID NO:	8172	9344	9891	6966	2127	2948	3776	3776	4595	4706	6682	7762	7762	1192	1192	4688	5019	5197	7236	7236	7389	1378	3538	6615

Page 93 of 413 Table 4 Single Exon Probes Expressed in Heart

SCD (2007) Exp. (1909) Model Shinkar Top-Hit Top Hit						5	חום דייטוו ביוס	Single Exon Probes Expressed in Heart
17510 27736 4.62 7.7E-02 7.7E-02 11422757 NT 19253 28504 5.24 7.7E-02 11432855 NT 19261 23067 2.57 7.6E-02 BE514432.1 EST_HUMAN 13261 23067 2.57 7.6E-02 AR286447.1 EST_HUMAN 13281 23061 0.94 7.8E-02 AR386447.1 EST_HUMAN 13428 23229 0.96 7.8E-02 AL39078.2 NT 17545 29028 7.7E-02 AL13078.2 NT 17650 2.9028 7.7E-02 AL13078.2 NT 1774 2764 0.36 7.7E-02 AL13078.2 NT 16734 29028 1.13 7.5E-02 AL139078.1 RST_HUMAN 16734 20536 1.13 7.5E-02 AR963667.1 RST_HUMAN 16831 27024 1.21 7.5E-02 AR903667.1 RST_HUMAN 16831 27024 1.22 7.4E-02	Probe SEQ ID NO:			Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
19253 28504 5.24 7.7E-02 11422757 INT 19261 25057 2.57 7.6E-02 BE514432.1 EST_HUMAN 13281 23067 2.57 7.6E-02 BE514432.1 EST_HUMAN 13281 23029 0.58 7.6E-02 AA266447.1 EST_HUMAN 14650 0.56 7.6E-02 AA266447.1 EST_HUMAN 17545 1.34 7.6E-02 AA131016.1 NT 17546 1.34 7.6E-02 AA26644.1 EST_HUMAN 17547 2.6028 1.13 7.6E-02 AA131016.1 NT 1774 2.6028 1.13 7.5E-02 AA96645.1 EST_HUMAN 10698 20536 1.13 7.5E-02 AB64367.1 NT 11774 21649 0.87 7.5E-02 AB64367.1 EST_HUMAN 16831 27024 1.21 7.5E-02 AB64367.1 EST_HUMAN 1641 27024 1.21 7.5E-02 AB64367.1 ES	7660	L			7.7E-02	P38080	SWISSPROT	PROBABLE SERINFITHREONINE-PROTEIN KINASE VERAGO
19561 2 7.7E-02 11438659 NT 13261 23067 2.57 7.6E-02 BE514432.1 EST_HUMAN 13281 23081 0.54 7.6E-02 AL400877.1 IST_HUMAN 13428 23229 0.58 7.6E-02 AL400877.1 IST_HUMAN 17311 27518 1.34 7.6E-02 AL400877.1 INT 17545 29028 2.45 7.6E-02 AL43078.2 INT 16938 20536 1.13 7.5E-02 AL49088.4.1 EST_HUMAN 10639 20536 1.13 7.5E-02 AR96864.1 INT 11774 21649 0.87 7.5E-02 AR96864.1 INT 16734 20536 1.13 7.5E-02 AR96864.1 INT 16742 20531 1.29 7.5E-02 AR967681.1 INT 16742 20531 1.29 7.5E-02 AR967681.1 INT 16740 20531 1.26-02 AR9676861.1 <td< td=""><td>8376</td><td></td><td></td><td></td><td></td><td>11422757</td><td></td><td>Homo sapiens KIAA0628 gene product (KIAA0628) mRNA</td></td<>	8376					11422757		Homo sapiens KIAA0628 gene product (KIAA0628) mRNA
13261 23067 2.57 7.6E-02 BE514432.1 EST_HUMAN 13281 23081 0.94 7.6E-02 AA29647.1 EST_HUMAN 13428 23229 0.83 7.6E-02 AA400877.1 IT 14650 0.89 7.6E-02 AA400877.1 IT 17545 1.34 7.6E-02 AA131016.1 INT 17545 2.9028 2.45 7.6E-02 AA131016.1 INT 10698 2.0536 1.13 7.6E-02 AA13006.1 INT 10774 2.1649 0.87 7.6E-02 AA13006.1 INT 10742 2.0536 1.13 7.5E-02 AA13006.1 INT 14301 2.0536 1.13 7.5E-02 AA168278.2 INT 14701 2.0537 1.19 7.5E-02 AA168378.1 INT 16831 2.7024 1.21 7.5E-02 AA108578.1 INT 11349 1.08 7.4E-02 AB018661.1 INT 12410 0.23 7.4E-02 AB018661.1 INT 14494 2.4282 1.21 7.4E-02 AB01867.1	9535			2	7.7E-02	-	LN	Homo saplens Interferon regulatory factor 7 (1RE7) mRNA
13281 23081 0.94 7.6E-02 AA29647.1 EST_HUMAN 13428 23229 0.83 7.6E-02 AJ400877.1 NT 14650 0.86 7.6E-02 AJ400877.1 NT 17645 1.34 7.6E-02 AJ43016.1 NT 17645 25928 2.45 7.6E-02 AJ431016.1 NT 1658 20536 1.13 7.6E-02 AJ431016.1 NT 10698 20536 1.13 7.6E-02 AJ480645.1 EST_HUMAN 10742 20536 1.13 7.5E-02 AB01866.1 NT 14301 24086 0.84 7.5E-02 AB01866.1 NT 16831 27024 1.13 7.5E-02 AB01866.1 NT 14301 24086 0.84 7.5E-02 AB01866.1 NT 14301 27024 1.23 7.4E-02 AB01866.1 NT 14301 20231 1.23 7.4E-02 AB01866.1 NT 14494 20231 1.23 7.4E-02 AB01863.1 EST_HUMAN 14494 <td< td=""><td>3341</td><td></td><td></td><td>2.57</td><td>7.6E-02</td><td>BE514432.1</td><td>EST HUMAN</td><td>601316426F1 NIH MGC 8 Home saniens china close IMAGE: 363,4663 gt</td></td<>	3341			2.57	7.6E-02	BE514432.1	EST HUMAN	601316426F1 NIH MGC 8 Home saniens china close IMAGE: 363,4663 gt
13428 23229 0.88 7.6E-02 AV400877.1 INT 14650 0.86 7.6E-02 AV400877.1 INT 17311 27518 1.34 7.6E-02 AJ131016.1 INT 17645 2.9028 2.45 7.6E-02 AJ131016.1 INT 10698 2.0536 1.13 7.5E-02 AV969645.1 EST HUMAN 10774 2.1649 0.87 7.5E-02 AV9696645.1 EST HUMAN 16734 2.0536 1.13 7.5E-02 AV9696645.1 EST HUMAN 16734 2.0536 1.13 7.5E-02 AV9696645.1 EST HUMAN 16734 2.0536 1.13 7.5E-02 AV9696645.1 EST HUMAN 16734 2.0521 1.21 7.5E-02 AV9696645.1 EST HUMAN 16742 2.0231 1.23 7.4E-02 AV969667.1 INT 16831 2.024 7.5E-02 AV969667.1 EST HUMAN 16740 2.025 1.23 7.4E-02 AV96965.1 EST HUMAN 1675 2.026 7.4E-02 AV96965.1 EST HUMAN 1675	3362			0.94	7.6E-02	AA296447.1	EST_HUMAN	EST112214 Cerebellum II Homo sapiens cDNA 5 end similar to similar to motocacharia 43
14650 0.96 7.6E-02 AW858944.1 EST_HUMAN 17311 27518 1.34 7.6E-02 AAJ131016.1 NT 17545 1.34 7.6E-02 AAJ131016.1 NT 10698 20536 1.13 7.5E-02 AW998645.1 EST_HUMAN 10698 20536 1.13 7.5E-02 AB502083 NT 11774 21649 0.87 7.5E-02 AB604504.1 NT 14301 24085 0.87 7.5E-02 AB604504.1 NT 14301 24085 0.87 7.5E-02 AB604504.1 NT 14301 24085 0.87 7.5E-02 AB04604.1 NT 14301 24085 0.87 7.5E-02 AB04604.1 NT 14401 24085 0.89 7.4E-02 AB04604.1 NT 14401 24081 1.08 7.4E-02 AB04604.1 NT 14451 24282 3.38 7.4E-02 AB07608.1 NT	3512			0.93	7.6E-02		Ę	Homo saplens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene
17311 27518 1.34 7.8E-02 AJ131016.1 NT 17645 1.34 7.8E-02 AJ13078.2 NT 18736 29028 2.45 7.6E-02 AW998845.1 EST_HUMAN 10698 20536 1.13 7.5E-02 5902093 NT 11774 21649 0.87 7.5E-02 AB015861.1 NT 14301 24085 0.84 7.5E-02 AB015861.1 NT 16831 27024 1.19 7.5E-02 AB015861.1 NT 16831 27024 1.21 7.5E-02 AB015861.1 NT 11349 20231 1.23 7.4E-02 AB015861.1 NT 11349 20231 1.23 7.4E-02 AB030027.1 NT 14573 20231 1.23 7.4E-02 AB030027.1 NT 14573 24370 0.89 7.4E-02 AB030027.1 NT 14573 24370 2.66 7.4E-02 6678492 NT <td>4765</td> <td></td> <td></td> <td>0.36</td> <td>7.6E-02</td> <td>AW858844.1</td> <td>4.</td> <td>RC3-CT0347-110300-014-a05-CT0347-Home consises - PNIA</td>	4765			0.36	7.6E-02	AW858844.1	4.	RC3-CT0347-110300-014-a05-CT0347-Home consises - PNIA
17545 1.34 7.6E-02 AL139078.2 NT 18736 29028 2.45 7.6E-02 AW996645.1 EST_HUMAN 10698 20536 1.13 7.5E-02 5902093 NT 11774 21649 0.87 7.5E-02 AB015661.1 NT 14301 24085 0.84 7.5E-02 AB015661.1 NT 16734 26927 1.19 7.5E-02 AB015661.1 NT 16734 26927 1.19 7.5E-02 AB015661.1 NT 16734 26927 1.27 7.5E-02 AB015661.1 NT 11349 27024 1.27 7.5E-02 AU16913.1 EST_HUMAN 11349 20231 1.23 7.4E-02 AN9838547.1 EST_HUMAN 14573 24528 3.38 7.4E-02 AR6030027.1 NT 14573 24518 1.7 7.4E-02 AR67885.1 EST_HUMAN 16492 266 7.4E-02 AR67868.0 NT <td>7393</td> <td></td> <td></td> <td>1.34</td> <td>7.8E-02</td> <td></td> <td>9</td> <td>Homo sabients SCI mene locus</td>	7393			1.34	7.8E-02		9	Homo sabients SCI mene locus
18736 29028 2.45 7.6E-02 AW996645.1 EST_HUMAN 10698 20536 1.13 7.5E-02 5902093 NT 11774 21649 0.87 7.5E-02 AB015661.1 NT 14301 24085 0.84 7.5E-02 AB015661.1 NT 16734 26927 1.19 7.5E-02 AB015661.1 NT 16831 27024 1.27 7.5E-02 AB015661.1 NT 16734 26927 1.19 7.5E-02 AB015661.1 NT 16831 27024 1.27 7.5E-02 AU16913.1 EST_HUMAN 11349 20231 1.23 7.4E-02 AN9838547.1 EST_HUMAN 14579 7.6E-02 AN9838547.1 EST_HUMAN NT 14494 24282 3.38 7.4E-02 AR903027.1 NT 14573 24370 2.66 7.4E-02 AR907885.1 EST_HUMAN 16492 2657 7.4E-02 AR907885.1 <	7695	L		1.34	7.6E-02	Γ	LN	Cambydobacter lettini NCTC4168 complete account.
10698 20535 1.13 7.5E-02 5902093 NT 10698 20536 1.13 7.5E-02 5902093 NT 11774 21649 0.87 7.5E-02 AB015061.1 NT 14301 24085 0.84 7.5E-02 AB04507.1 EST_HUMAN 16734 26927 1.19 7.5E-02 AB04507.1 EST_HUMAN 16831 27024 1.21 7.5E-02 AU16913.1 EST_HUMAN 16412 20231 1.23 7.4E-02 AU16913.1 EST_HUMAN 11349 1.08 7.4E-02 AP030027.1 NT 14494 24282 3.38 7.4E-02 AF030027.1 NT 14573 24518 3.38 7.4E-02 AR07885.1 EST_HUMAN 14573 24518 1.7 7.4E-02 AR07885.1 EST_HUMAN 16492 265069 NT 7.4E-02 AR07842 NT 16828 27021 1.7 7.4E-02 AR07842 </td <td>8927</td> <td>18735</td> <td></td> <td>2.45</td> <td>7.6E-02</td> <td>5.1</td> <td>EST HUMAN</td> <td>QV3-BN0046-150400-151-604 BN0046 Homo saplens cDNA</td>	8927	18735		2.45	7.6E-02	5.1	EST HUMAN	QV3-BN0046-150400-151-604 BN0046 Homo saplens cDNA
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11774 21649 0.87 7.5E-02 AL163278.2 NT 14301 24085 0.84 7.5E-02 AB015961.1 NT 16734 26927 1.19 7.5E-02 AL16913.1 EST HUMAN 16831 27024 1.21 7.5E-02 AU16913.1 EST HUMAN 1749 1.23 7.4E-02 AF030027.1 RT HUMAN 12410 0.83 7.4E-02 AF030027.1 NT 14464 24282 3.38 7.4E-02 AF03027.1 NT 14473 24370 2.66 7.4E-02 AF03027.1 NT 14573 24518 1.7 7.4E-02 AF03027.1 NT 14573 24518 1.7 7.4E-02 AF03027.1 RST HUMAN 16819 1.7 7.4E-02 AF03027.1 RST HUMAN 16828 27021 1.7 7.4E-02 AF03027.1 RST HUMAN 16828 27021 1.37 7.4E-02 AF03037.1 RST HUMAN 16828 27021 1.37 7.4E-02 AF03039.1 RST HUMAN 16828 27021 1.37	767	10698		1.13	7.5E-02		TN.	Homo saplens solute certier femily 6 (nounchangement)
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16734 26927 1.19 7.5E-02 AIB64367.1 EST_HUMAN 16831 27024 1.21 7.5E-02 AU116913.1 EST_HUMAN 11349 20231 1.23 7.4E-02 AN0838547.1 EST_HUMAN 12410 0.83 7.4E-02 AF030027.1 NT 13461 23255 0.89 7.4E-02 AI807885.1 EST_HUMAN 14573 24370 2.66 7.4E-02 AI807885.1 NT 14573 24518 1.7 7.4E-02 AI807885.1 EST_HUMAN 14573 24518 1.7 7.4E-02 AI807885.1 EST_HUMAN 16492 2565 7.4E-02 AI807885.1 EST_HUMAN 16492 2567 7.4E-02 AI807885.1 EST_HUMAN 16828 27021 1.37 7.4E-02 AI807887.1 AI7000000000000000000000000000000000000	4407	14301	24085	0.84	7.5E-02	-	LN	Homo sapiens IL-18 gene for interleukin-18 intron 1 and axon 2
16831 27024 1.21 7.5E-02 AU116913.1 EST HUMAN 10412 20231 1.23 7.4E-02 AW838547.1 EST HUMAN 11349 1.08 7.4E-02 AF030027.1 NT 13461 23255 0.89 7.4E-02 AR807885.1 EST HUMAN 14573 24282 3.38 7.4E-02 L78810.1 NT 14573 24370 2.66 7.4E-02 L78810.1 NT 15819 1.77 7.4E-02 6678462 NT 16828 27021 1.7 7.4E-02 6678462 NT 16828 27021 1.3 7.4E-02 BE880112.1 EST HUMAN 16828 27021 1.3 7.4E-02 U56089.1 NT 18975 2.08 7.4E-02 W3379431.1 EST HUMAN 19674 2.82 7.4E-02 W3379431.1 EST HUMAN 19675 2.022 7.3E-02 BE964961.2 EST HUMAN	6855			1.19	7.5E-02		EST HIMAN	WISZB02.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2428491 3' similar to gb:M14328 ALPHA FNOI ASE (HIMAN)
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11349 1.08 7.4E-02 AF030027.1 NT 12410 0.83 7.4E-02 6755069 NT 13461 23255 0.89 7.4E-02 AR807885.1 EST_HUMAN 14573 24370 2.66 7.4E-02 L78810.1 NT 14738 24518 1.7 7.4E-02 6678492 NT 15619 1.7 7.4E-02 6678492 NT 16828 27021 1.4 7.4E-02 BE880112.1 EST_HUMAN 16828 27021 1.3 7.4E-02 U56088.1 NT 19674 2.08 7.4E-02 W375893.1 NT 19674 2.82 7.4E-02 W375893.1 EST_HUMAN 19235 25242 1.81 7.4E-02 BE9854961.2 EST_HUMAN 10405 20222 0.96 7.3E-02 BE9854961.2 EST_HUMAN	469	10412		123	7.4E-02		EST HUMAN	RC5-LT0054-260700-0141-H091 T0054 Home centers CNA
12410 0.93 7.4E-02 6755069 NT 13461 23255 0.89 7.4E-02 Al807885.1 EST_HUMAN 14494 24282 3.38 7.4E-02 L78810.1 NT 14573 24370 2.66 7.4E-02 6678492 NT NT 15619 1.7 7.4E-02 6678492 NT NT 15819 1.76 7.4E-02 BE880112.1 EST_HUMAN 16828 27021 1.3 7.4E-02 UG6088.1 NT 18975 2.08 7.4E-02 UG6088.1 NT 19674 2.82 7.4E-02 AW379431.1 EST_HUMAN 19235 25242 1.81 7.4E-02 BE985393.1 EST_HUMAN 10405 20222 0.96 7.3E-02 BE9854961.2 EST_HUMAN	1444 444	11349		1.08	7.4E-02		N-	Equine herpesvirus 4 strain NSR0567 commissioners
13461 23255 0.89 7.4E-02 AIB07885.1 EST HUMAN 14494 24282 3.38 7.4E-02 L78810.1 NT 14573 24370 2.66 7.4E-02 C8918442 NT NT 14738 24518 1.7 7.4E-02 C678492 NT NT 15519 1.75 7.4E-02 R17477.1 EST HUMAN 16492 26678 1.4 7.4E-02 R880112.1 EST HUMAN 16828 27021 1.37 7.4E-02 R6989.1 NT 19674 2.08 7.4E-02 AW379431.1 EST HUMAN 19235 25242 1.81 7.4E-02 AW379431.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE964961.2 EST HUMAN	2536	12410		0.93	7.4E-02	6722069	- LN	Mus musculus paired-like homeodomain transcription factor 1 (Pity1) mBNA
14494 24282 3.38 7.4E-02 L78810.1 INT 14573 24370 2.66 7.4E-02 C678442 INT 14738 24518 1.7 7.4E-02 C678492 INT 15519 1.7 7.4E-02 C678492 INT EST HUMAN 16492 26678 1.7 7.4E-02 C678 INT EST HUMAN 16828 27021 1.37 7.4E-02 C6089.1 INT 1875 2.08 7.4E-02 C6089.1 INT 19574 2.82 7.4E-02 AW379431.1 EST HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE964961.2 EST HUMAN	3545	13461	23255	0.89	7.4E-02	1.1	EST_HUMAN	wf43h01x1 Soares NFL T GBC S1 Hamp saniens cDNA change MACE: 2259386 91
14573 24370 2.66 7.4E-02 6978442 NT 14738 24618 1.7 7.4E-02 6678492 NT 15819 1.75 7.4E-02 6678492 NT 16492 26678 1.4 7.4E-02 RE380112.1 EST HUMAN 16828 27021 1.37 7.4E-02 U56089.1 NT 19674 2.08 7.4E-02 AW379431.1 EST HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST HUMAN	4 8 8 8	14494	24282	3.38	7.4E-02		LN	Homo sapiens ADP/ATP carrier protein (ANT-2) dene complete cde
14738 24518 1.7 7.4E-02 6678492 NT 15819 1.75 7.4E-02 R17477.1 EST_HUMAN 16828 27021 1.4 7.4E-02 BE880112.1 EST_HUMAN 18975 2.08 7.4E-02 UG6089.1 NT 19574 2.82 7.4E-02 AW379431.1 EST_HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST_HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST_HUMAN	4687	- 1	24370	2.66	7.4E-02	6978442	N	Rattus norvegicus Activin receptor like kinasa 1 (Acud1) mRNA
15819 1.75 7.4E-02 R17477.1 EST HUMAN 16492 26678 1.4 7.4E-02 BE880112.1 EST HUMAN 16828 27021 1.37 7.4E-02 U56089.1 NT 19675 2.08 7.4E-02 AW379431.1 EST HUMAN 19674 2.82 7.4E-02 BF035099.1 EST HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST HUMAN	4858	- [24518	1.7	7.4E-02	6678492	LN L	Mus musculus ubiquintin c-terminal hydrolasa related nohmentide (11chm)DNA
16492 26678 1.4 7.4E-02 BE880112.1 EST HUMAN 16828 27021 1.37 7.4E-02 U56089.1 NT 18975 2.08 7.4E-02 W379431.1 EST HUMAN 19674 2.82 7.4E-02 AW379431.1 EST HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST HUMAN	5913	15819		1.75	7.4E-02		EST HUMAN	1914g06.r1 Soares Infant brain 1NIB Homo sapiens ciDNA clone IMACE: 32320 F.
16828 27021 1.37 7.4E-02 U56089.1 NT 18975 2.08 7.4E-02 T1625893 NT 11525893 NT 19674 2.82 7.4E-02 AW379431.1 EST HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST HUMAN	6612	16492	26678	1.4	7.4E-02		EST HUMAN	601493366F1 NIH MGC 69 Homo sapiens cDNA clone IMAGE 3896264 5
18975 2.08 7.4E-02 11525893 NT 19674 2.82 7.4E-02 AW379431.1 EST_HUMAN 19235 25242 1.81 7.4E-02 BF035099.1 EST_HUMAN 10405 20222 0.96 7.3E-02 BE984961.2 EST_HUMAN	6950	16828	27021	1.37	7.4E-02		7	Human periodic tryotophan protein 2 (PWP2) gene exme 15 th 21 and complete ada
19674 2.82 7.4E-02 AW379431.1 EST_HUMAN 19235 20222 0.96 7.3E-02 BE964961.2 EST_HUMAN EST_HUMAN	9271	18975		2.08	7.4E-02	11525893	NT.	Homo sapiens histone deacetylase 5 (NY-CO.9) mRNA
19235 25242 1.81 7.4E-02 BF035099.1 EST HUMAN 10405 20222 0.96 7.3E-02 BE964961.2 EST_HUMAN	9527	19674		2.82	7.4E-02	Γ	EST HUMAN	CM4-HT0243-081199-037-d11 HT0243 Homo saniens cDNA
10405 20222 0.96 7.3E-02 BE964961.2 EST_HUMAN	8298	19235	25242	1.81	7.4E-02 8	Γ	EST HUMAN	601453813F1 NIH MGC 66 Homo seriens CDNA clone IMA CE 2857729 F
	4	10405	20222	0.96	7.3E-02	2	3 1	601658738R1 NIH MGC 69 Homo sapiens cDNA clone IMAGE-3886206 3

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Table 4
Single Exon Probes Expressed in Heart

Top Hit Describut Top Hit Describut Source 1.2 EST_HUMAN GOTGEGT38R1 NIH_MGC_59 Homo saplens cDNA clone IMAGE:3886209 3' 1.4 INT Thermoday maritima section 101 of 136 of the complete genome 1.5 EST_HUMAN GOTGEGT38R1 NIH_MGC_59 Homo saplens cDNA clone IMAGE:3886209 3' SWISSPROT PROLINE-RICH PROTEIN MF3 SWISSPROT PROLINE-RICH PROTEIN MF3 TREADLY SAPENDER CHANDOL-18 PROLINE NIH-MBS CHANDOL-18 PROLINE NIH-MBS CHANDOL-18 PROLINE-RICH PROTEIN MF3 TREADLY NIT Secretarian thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete complete channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes administration thermoauchtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes administration thermoachtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes administration thermoachtophicum from bases 1028155 to 1039934 (section 68 of 148) of the complete channes administration to the channes a	
	Exon ORF SEQ Expression (Top) Hit Top Hit Acession NO: Signal BLASTE No.
T HUMAN	10405 20223 0.96 7.3E-02 BE964961.2 ES
NISSPROT VISSPROT VISSPROT THUMAN	20420 2.73 7.3E-02 AE001789.1
NISSPROT VISSPROT THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN THUMAN	21237 3.04 7.3E-02 AW900281.1
VISSPROT VISSPROT THUMAN	14.81 7.3E-02 AL 163302.2
VISSPROT VISSPROT T. HUMAN T. HUM	1.01 7.3E-02 U12283.1
T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN	26437 2.44
T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN	26438 2.44 7.3E-02 P05143
T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN T HUMAN	
T_HUMAN T_HUMA	15788 25910 2.78 . 7.3E-02 AA779977.1
T_HUMAN T_HUMAN T_HUMAN T_HUMAN	10093 19911 0.94 7.2E-02 AE000882.1
T HUMAN T HUMAN T HUMAN T HUMAN	10093 19912 0.94 7.2E-02 AE000882.1
T HUMAN TEHUMAN TEHUMAN TEHUMAN	21228 2.23 7.2E-02 AL163301.2
T_HUMAN T_HUMAN T_HUMAN T_HUMAN T_HUMAN	
T HUMAN T HUMAN T HUMAN T HUMAN	2.5 7.2E-02 U14794.1
T HUMAN T HUMAN T HUMAN	23511 0.82 7.2E-02 AW 298322.1
ISSPROT T_HUMAN T_HUMAN	23922 4.02 7.2E-02 BF572307
T_HUMAN T_HUMAN T_HUMAN	24268 78.82 7.2E-02 1:
ISSPROT THUMAN THUMAN THUMAN	24636 0.94
T_HUMAN T_HUMAN T_HUMAN	24922 3.03
T HUMAN	24923 7.62
T HUMAN	26272 9.33 7.2E-02 BF216086
T HUMAN	1.75 7.2E-02
THUMAN	17396 27608 2.05 7.2E-02 AV712452.1
T HUMAN	17476 27697 4.23 7.2E-02 L14561.1
	17596 27818 2.64 7.2E-02 AW873187.1
	17776 28016 2.05 7.2E-02 U82695.2

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Table 4

					Sin	gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
7983	17833	28073	5.47	7.2E-02	7.2E-02 BE565003.1	EST HUMAN	601343928F1 NIH MGC 53 Home segiens citiNA clone IMA CE 3685054 F1
7994	17844		3.2		7.2E-02 BE539214.1	EST HUMAN	601065/94F1 NIH MGC 10 Homo saniens CDNA close NAACE: 3484860 87
8285			4.8		7.2E-02 AF049874.1	Į.	Rattus norvegicus bHLH transcription factor Mist (Mist) gans complete ado
9178	18919	25346	1.4	7.2E-02	7.2E-02 AA773696.1	EST HUMAN	af81a04.r1 Soares NhHMPu S1 Homo saniens CNMA clene MACE: 4040000 51
9214	18942		3.13		7.2E-02 AJ230796.1	EST HUMAN	AJ230798 Homo sapiens library (Seranski P) Homo sapiens christ characteristics
9273	18977		1.44	١.	7.2E-02 AA584465.1	EST HUMAN	Ino05h08.s1 NCI CGAP Phet Home saniers china chare Investment and a chare investment and control of the characteristics of the characteri
8332	19013		1.62		7.2E-02 U82828.1	F	Homo sapiens ataxia telangiectasia (ATM) dene complete cris
9346	19531		3.89		7.2E-02 AW900962.1	EST_HUMAN	CM4-NN1009-200300-116-c11 NN1009 Homo sapiens cDNA
1862	11758	21633	1.65	7.1E-02	7.1E-02 1.02290.1	Þ	Human immunodeficiency virus type ((09) proving ethichtire considerateis (200)
2243	12127		6.0	7.1E-02	7.1E-02 AE004890.1	Z	Pseudomonas aerudinosa PA01 section 451 of the complete c
2247	12131	22028	5.08	7.1E-02	7.1E-02 BF208802.1	EST HUMAN	601872281F1 NIH MGC 53 Homo septiens CNN Advise 1840 CE: 4000004 51
8063	18844		4.98	7.1E-02	7.1E-02 BE304764.1	EST HUMAN	601143974F1 NIH MGC 15 Home saniers china china IMAGE-2051324 E1
517		20270	1.23	7.0E-02 Q07092	Q07092	SWISSPROT	COLLAGEN ALPHA 1(XVI) CHAIN PRECURSOR
1484			1.46	7.0E-02	7.0E-02 X96677.1	Ę	M.artiellia Mtcut-1 gene
1725	11626	21495	1.36	7.0E-02	7.0E-02 AA056343.1	EST HUMAN	266004.51 Stratagene colon (#937204) Homo saniens cDNA clone (MACE: Engens 2)
2994	12922	22715	1.72	7.0E-02	7.0E-02 AW138152.1	EST HUMAN	Ul-H-Bit-acy-c-07-0-Ul.st NCI CGAP Sub3 Homo septens cDNA clone IMA GE: 2748020 2
3822	13734	23523	7	7.0E-02	7.0E-02 AA815438.1	EST HUMAN	ai65a12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375678 3' similar to gb:K03002.60S RIBOSOMAL PROTEIN 132 (HI IMAN):
3958	13868	23642	1.24	7.0E-02	7.0E-02 BE070264.1	EST HUMAN	QV4-BT0407-280100-090-e10 BT0407 Home seniers cDNA
4047	13949		1.08	7.0E-02	2.1	EST HUMAN	OMO-UM0001-060300-270-e12 (IM0001 Home saniens - DNA
4121	-	23799	1.27	7.0E-02	۲.	ΝŢ	Canis familiaris Inducible nitric oxide synthase mRNA complete cyls
4846	- [24510	7.1	7.0E-02	7.0E-02 BF381987.1	EST_HUMAN	601816291F1 NIH MGC 56 Homo sapiens cDNA clone IMAGF-4050071 F
7259	- [27329	1.25	7.0E-02	3628113 NT	N	African swine fever virus, complete genome
7534	17385	. 27597	1.19	7.0E-02	7.0E-02 K02901.1	NT	Rat lg germline epsilon H-chain gene C-region, 3' end
8679	18567	28850	2.39	7.0E-02		EST HUMAN	ah99a05.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1327184 3' similar to gb:L14837 TIGHT JUNCTION PROTFIN 20-1 (HI IMAMN).
503	10445	20256	5.34	6.9E-02	6.9E-02 AL163210.2	Z L	Homo sapiens chromosome 21 seament HS2/C/10
503	10445	20257	5.34	6.9E-02		F	Homo sapiens chromosome 21 segment HS21C010
1311	11217		1.31	6.9E-02	4507968 NT	Į	Homo sapiens regulator of Gz-selective profess cinneling (ZGADA) mDNA
3724	13636	23421	1.42	6.9E-02 Q06364		SWISSPROT	26S PROTEASOME REGULATORY SURLINIT SEAM ANTICEN AND CARREST PRODUCES
3724	- 1	23422	1.42	6.9E-02 Q06364		SWISSPROT	28S PROTEASOME REGULATORY SUBUNIT 53 (NUCL FAR ANTIGEN 2107)
2100	14968		1.05	6.9E-02	6.9E-02 AF079906.1	NT	Rabies virus Isolate b615 glycoprotein gene, partial cds

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	Tap Hit Descriptor	601340661F1 NIH MGC 53 Homo sapiens cDNA clone IMAGE:3683030 5'	601340661F1 NIH MGC 53 Homo sapiens cDNA clone IMAGE 3883030 5'	head protein	PROTEIN TRANSPORT PROTEIN HOFC HOMOLOG	Homo seplens membrane-bound aminopeptidase P (XNPEP2) gene, complete cris	ae30f02.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897339 5' similar to gb:M22382 MITOCHONDRIAL MATRIX PROTEIN P1 PRECURSOR (HUMAN):	ae30f02.r1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897339 6' similar to gb:M22362 MITOCHONDRIAL MATRIX PROTEIN P1 PRECLIRSOR (11 IMAN):	Homo sapiens putative hepatic transcription factor (WRSCR14) gene complete od:	ai75a06.s1 Soares testis NHT Homo sapiens cDNA clone 1376876 3'	ai75a08.s1 Soares testis NHT Homo sapiens CDNA clune 1378626.3	ai75a06.s1 Soares testis NHT Homo saplens cDNA clone 1376626.31	MR0-HT0069-071099-001-c05 HT0069 Homo sapiens cDNA	1 segment HS21C068	Pyrococcus abyesi complete genome; segment 5/6	Pyrococus abyssi complete genome: segment 5/6	FB4A8 Fetal brain, Stratagene Homo saplens cDNA clone FB4A8 3 and similar to I NF-1	ah67f05.s1 Soares testis NHT Homo sapiens cDNA clone 1320705.31	Mus musculus latent TGF beta binding protein (Tafb), mRNA	Oncorhynchus mykiss TAP1 protein (OnnyTAP1) mRNA, OnnyTAP1*01 allele, complete cris	9979e04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1841406.31	(D4 (CHOX-A)	at12e09.x1 Barstead aorta HPLRB6 Homo seplens cDNA clone IMAGE:2354920 3' similar to SW:LIN1 NYCCO P08548 LINE-1 REVERSE TRANSCRIPTASE HOMOLOGY	Drosophila melanogaster cactin mRNA, complete cds	Mus musculus Cabn12 gene for calpain 12 exons 1-21 three alternative transcripts	ZEPTOR (H9)	y18b10.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:139579.3'	Homo sepiens mesothelin (MSLN), transcript variant 1, mRNA	Homo sapiens mesothelin (MSLN), transcript variant 1, mRNA	Homo sepiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced	INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H? PRECT IRSOB (IT LEAVE CHAIN LOS
Single Exon Probes Expressed in Heart	Top Hit Database Source	5.1 EST HUMAN 601340661F1 NIH	EST HUMAN	Т	ISSPROT	Г	EST HUMAN	EST HUMAN	N	EST_HUMAN	EST HUMAN	3.1 EST HUMAN ai75a06.s1 Soares	5.1 EST_HUMAN MR0-HT0069-07109	Γ	.1 NT Pyrococcus abyssi o	.1 NT Pyrococcus abyssi c	Т	.1 EST HUMAN ah67f05.s1 Soares	_	3.1 NT Oncorhynchus mykis	I EST_HUMAN qg79e04.x1 Soares_			F	뉟	ISSPROT	EST_HUMAN yi18b10.s1 Soares p	108357 NT Homo sapiens meso	108357 NT Homo sapiens mesol		SWISSPROT INTER-ALPHA-TRYPSIN INHIBITOR HEAVY CHAIN H2 PRECURSOR (ITI HEAVY CHAIN H2)
	Most Similar (Top) Hit Top Hit Acession BLAST E No.	6.9E-02 BE56743	6.9E-02 BE56743		6.9E-02 P44621		6.8E-02 AA496759.1	6.8E-02 AA496759.1	Ĺ	6.8E-02 AA78199	6.8E-02 AA78199	6.8E-02 AA781990	6.8E-02 BE14107	6.8E-02 AL 163268	6.8E-02 AJ248287	6.8E-02 AJ248287		6.8E-02 AA758014	6.8E-02	6.7E-02 AF115536		6.7E-02 P17278	6.6E-02 AI735509.	6.6E-02 AF245116.1				6.6E-02	6.6E-02	6.6E-02 AF260225	6.6E-02 Q61703
	ORF SEQ Expression ID NO: Signal	27048 1.37	27049 1.37	3.95	1,5	2.19	21610 1.11	21611 1.11	21635 3.91	22780 1.23	22781 1.23	22782 1.23				26895 6.12	1.37	2.98	2.97			23356 3.52	21089 1.05	21109 1.5	21918 3.07	1.32	23139 8.61			23673 1.59	24558 8.4
	Exan SEQ ID NO:	8 16855	8 16855	8 18939	5 19045	8 19180	9 11736	9 11736	5 11761		12989			J	\perp l			_ {			- 1	3 13570	5 11233						╛		14784
	Probe SEQ ID NO:	6978	6978	9208	9385	9598	1839	1839	1865	3062	3062	3062	4453	6315	6822	6822	9011	9140	9764	1511	1851	3656	1326	1347	2133	3133	3418	3432	3432	3989	4904

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					3,										3' similar to gb:M26038							lar to contains LTR8.b3	Sport	cods					haemochromatosis	spo at
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Amsacta albistriga nucleopolyhedrovirus AcORF17 homolog gene, complete cds	Vibrio cholerae chromosome II, section 2 of 93 of the complete chromosome	P.vulgaris mRNA for chalcone synthase	qh41d01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1847233 3'	Homo sapiens chemokine receptor CXCR4 gene, promoter region and complete cds	Homo sapiens EWS, gar22, rrp22 and bam22 genes	MR1-SN0064-010600-006-a12 SN0064 Homo sapiens cDNA	Mus musculus DIPB gene (Dipb), mRNA	Rattus norvegicus cytochrome P450 2E1 (CYP2E1) gene, 5' flanking region	601671046F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954178 51	Homo sapiens E2F-like protein (LOC51270), mRNA	Xenopus laevis alpha(E)-catenin mRNA, complete cds	Aquifex aeolicus section 96 of 109 of the complete genome	2x46h12.s1 Soares ovary tumor NbHOT Homo sepiens cDNA clone IMAGE:756743 3' similar to gb:M26038 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN. DR-5 BETA CHAIN (HIMAN)	z32g05.s1 Soares NhHMPu S1 Hamo sapiens cDNA clone IMAGE-665144.3*	Rabbit microsomal epoxide hydrolase	Nectria haematococca kinesin related protein 2 (KRP2) gene, complete cds	A.carterae precursor of peridinin-chlorophylla-protein (PCP) gene	Mus musculus histone deacetylase 5 (Hdac5), mRNA	Mus musculus histone deacetylase 5 (Hdac5), mRNA	qe07b01x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738249 3' similar to contains LTR8.b3 LTR8.b3 LTR8 repetitive element :	Heterodera glycines beta-1,4-endoglucanase-1 precursor (HG-eng-1) gene complete cds	Heterodera glycines beta-1,4-endoqucanase-1 precursor (HG-eng-1) gene complete cds	601680426R2 NIH MGC 83 Homo saplens cDNA clone IMAGE:3950503 31	Mus musculus chaperonin subunit 6a (zeta) (Cct6a), mRNA	k1419.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5	Homo sapiens mRNA for KIAA0554 protein, partial cds	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis	(HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds
gie Exon Pro	Top Hit Database Source	Z	N.	N-	EST_HUMAN	본	Z	EST_HUMAN	Z	5	EST_HUMAN	F	IN.	뉟	EST HUMAN	EST HUMAN	NT	N F	F	TN	IN	EST HUMAN	NT	N	EST HUMAN	N	EST HUMAN	N		L
uio	Top Hit Acession No.	6.6E-02 AF204882.1	6.6E-02 AE004345.1			6.6E-02 AF052572.1		6.6E-02 BF374248.1	19937991 NT	6.6E-02 AF167430.1	6.5E-02 BF027639.1	7706068 NT	6.5E-02 U47624.1	6.5E-02 AE000764.1		6.5E-02 AA195648.1	6.5E-02 M21496.1	6.5E-02 AF102993.1	6.4E-02 X94549.1	6996923 NT	6996923 NT	6.4E-02 AI191956.1	6.4E-02 AF052733.1	AF052733.1	6.4E-02 BE974448.1	6753323 NT	6.4E-02 AA093305.1	6.4E-02 AB011126.1		6.4E-02 U91328.1
	Most Similar (Top) Hit BLAST E Value	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.6E-02	6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.5E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02	6.4E-02		6.4E-02
	Expression	1.34	0.84	3.09	2.93	1.48	1.37	6.28	2.08	1.46	1.91	1.75	4.17	2.16	1.76	5.61	3.53	3.73	1.63	1.35	8.78	4.	7.58	7.58	5.23	2.57	4.12	202		1.86
	ORF SEQ ID NO:	24800	24817	26998				28457				20743	21131	21474	25383	28173				22708		25094	25727	25728	26210		27099	27668		29049
	Exon SEQ ID NO:	15033	15053		15969	16515	17656	18207	19175	19366	10506	10895	11275	11603	15333	17927	18823	19051	10501	12909	15044	15267	15625	15625	16062	16732	16911	17454		18/54
	Probe SEQ (D NO:	5167	5190	2968	6209	6635	7806	8330	9593	9882	567	971	1369	1702	5413	8035	9034	9393	561	4802	5180	5346	5718	5718	6079	6853	7034	7603	250	0340

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Table 4

Single Exon Probes Expressed in Heart	Top Hit Descriptor	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (H.A.H.) gene RoRef gene and sociiting physical transporter (N.D.T.o.)	Homo sapiens mucin 58 (MUC58) gene, bartial refs.	Drosophila melanogister mRNA for mod/mda4151.4 hrolein	Mus musculus major histocompatibility locus class III regions Hec70t gene, partial cds; smRNP, G7A, NG23, MutS homolog. Q CP, NG24, NG25, and NG28, send N	HEAT SHOCK PROTEIN 70 HOMOI OG	Hepatitis Gvirus RNA for polymeries (NISEA rection), parties cylones CMB 450	601873316F1 NIH MGC 54 Homo seniens cDNA clone NAACE-Andrago en	TRANSCRIPTIONAL REGULATORY PROTEIN ALCO ALCINATE PEOLITATION PROTEIN ALCO ALCO ALCO ALCO ALCO ALCO ALCO ALCO	Arabidopsis thallana DNA chromosome 4. contin framment No. 6x	Rettus norvegicus differentation-associated Ne-dependent inorganic phosphate cotransporter (DNPI) mRNA, complete cds	52 KD RO PROTEIN (SIDGREN SYNDROME TYPE A ANTICEN SE ANY SECOND AND SECOND SECO	AV705701 ADB Home seniors CONA class ADDA App 5:	Mus musculus shamal cell derived factor recents 20 AFO DNA	Metantizium anisonijae mRNA for Chumotrosin (Abd Anna)	Aquifex aedicus section 82 of 109 of the complete genome	7137h08.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Home sepiens cDNA clone IMAGE:3523815.3' similar to TR:09Y4S6 09Y4S6 HYPOTHETICAL 30 2 Kh DEDTERN 121	Human mRNA, Xq terminal portion	Arabidopsis thallana K+ inward restifying channel protein (Att/C4) gene committee and	Homo saplens mRNA for KIAA1464 protein, partial cds	H. sapiens mRNA for B-HLH DNA binding protein	IL3-HT0618-110500-136-C06 HT0618 Homo seniens aDNA	S Japonicum mRNA for serine-enzyme	Homo sapiens chromosome 21 segment HS21C007	Thermotoga maritima section 89 of 136 of the complete genome	EST380924 MAGE resequences, MAGJ Homo sapiens cDNA	Mesocestoldes corti mitochondrial DNA, NADH dehydrogenase subunit 4, tRNA-Gin, tRNA-Phe, tRNA-Met, A TPase subunit 8 and NADH dehydrogenese subunit 3	2778004.11 Stratagene HeLa cell s3 937216 Homo sepiens cDNA clone IMAGE:626310 5
le Exon Probe	Top Hit Database Source	<u> </u>			N EX	/ISSPROT	I	T HUMAN	Т	Т	Ω 8	ISSPROT	Τ				FST HUMAN TE	T	NT	Ĭ,	E .	EST HUMAN IL	NT	H	NT TN	EST HUMAN ES	NT A	T HUMAN
Sinc	Top Hit Acessian No.	6.4E-02 U91328.1	2	_	6.3E-02 AF109905.1			6.3E-02 BF210736.1	Γ	6.2E-02 AL161572.2	6.2E-02 AF271235.1		2	868778	6.2E-02 AJ242735.1		6.2E-02 BF112039.1			1.7		3.1		2		6.0E-02 AW968848.1	6.0E-02 AB031289.1	
	Most Similar (Top) Hit BLAST E Value	6.4E-02	6.4E-02	6.4E-02	6.3E-02	6.3E-02 P37092	6.3E-02	6.3E-02	6.3E-02 P15276	6.2E-02	6.2E-02	6.2E-02 Q62191	6.2E-02	6.2E-02	6.2E-02	6.2E-02	6.2E-02	6.1E-02 D16471.1	6.1E-02 U73325.1	6.1E-02	6.1E-02 X99268.1	6.1E-02	6.1E-02 X70969.1	6.1E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02
	Expression Signal	1.86	3.65	2.27	2.43	2.09	3.14	3.29	1.49	3.37	1.11	5.41	1.22	1.21	<u>4</u>	3.53	1.98	4.53	2.65	1.01	3.46	5.44	7.17	3.6	1.41	1.57	1.61	1.22
	ORF SEQ ID NO:	29050		25295	21490		27825	25741		23831				27525	28827		25265	20038		24785	26877	28248			20997	22399		19892
	Exan SEQ ID NO:	18754	19635	19017	11621	13467	17602	15637	19039	14057	14142	14373	14687	17319	18544	19752	19142	10222	13819	15017	16688	18002	19670	19296	11148	12508	12607	10076
	Probe SEQ ID NO:	8946	9289	9337	1720	3552	7752	8038	9373	4157	4243	4479	4803	7459	8655	9129	9541	256	3909	2120	6809	8112	888	9783	1241	2641	2745	2906

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Single Exon Probes Expressed in Heart

		_	-	-	-	_	-	_	_	_	_	_	_	-	٠,	-													_			
Cirigio Evolus Pobles de III Medit	Top Hit Descriptor	2078c04,r1 Stratagene HeLa cell s3 937216 Homo sanians CDNIA clara NAA CE encesto El	EST84286 Colon adenocarcinoma IV Horno saniens cDNA 5' and cimilar to discuss to the	EST84266 Colon adenocarcinoma IV Home saniers cDNA 5' and similar to the similar to the saniers of the saniers colon adenocarcinoma IV Home saniers cDNA 5' and similar to the saniers colon adenocarcinoma IV Home saniers colon adenoca	601658150R1 NIH MGC 68 Homo saniens cDNA clare IMA CE 3975050 21	Streptococcus pneumoniae parC, parF and transposes prepase and ODE DNA	RC3-BT0253-011199-013-b04 BT0253 Homo saniens chiva	Homo saplens stimulated trans-acting factor (50 kDa) (STAFFO) mRNA	Homo sapiens stimulated trans-action factor (50 kDa / 27 EF60) mBNA	601815274F2 NIH MGC 56 Homo saniens cDNA clone IMACE: 40/0225 F	df58b08x1 Soares testis NHT Homo sanians CDMA close 1846 CE-1754405 of	Is78a06.x1 NOI CGAP GC8 Homo seniens cDNA clone IMAGE-222262 21	ts78a06.x1 NCI CGAP GC8 Homo saniens c/DNA circus IMAGE-2237x22.2	Acipenser baeri partial IGLV gene for Immunoalchulin light chain varieble rogins.	Acipenser baeri partial IGLV gene for Immunoriohulin light chain variable region, expression	Homo sapiens DNA-dependent protein kinase catalytic subunit-interaction protein 2 (KID2)	wf69h03.x1 Soeres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360885 3' similar to TR:060298 KIAA6551 PROTEIN	RC1-DT0001-290100-012-e10 DT0001 Homo seriess ADNA	Mus musculus p53 tumor suppressor gene evan 10 and 41 and all all and all and all all and all all and all all and all all all and all all all all all all all all all al	Saccharomyces cerevisiae protein foresthatase (PTD2) constitution	Mus musculus iroquois related homeobox 5 (Prospatials) (1275) monto	Mus musculus follistativ-like (Fstl), mRNA	Homo sapiens ninein (LOC51199), mRNA	Gallus galtus HKC9 tejomere lunction	Thiobacillus ferrooxidans merC. merA genes and URE-1	Populus trichocarpa CCoAOMT1 gene, expn 1 th expn 5	Thermotoga maritima section 87 of 136 of the complete genome	wx24c02x1 NCI CGAP Kid11 Home saniens cDNA chare IMA CE 25644578 21	wx24c02.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMACE-3544578 3	ph56f01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1848697.3' similar to gb:M13142 COAGULATION FACTOR XI PRECLIRSOR (HI IMAN):	9h56f01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens CDNA clone IMAGE:1848697.3' similar to ab:M13142 COAGUI ATION FACTOR XI PRECLIES OF ALLI MANN.	Gallus gallus tyrosine kinase JAK1 (JAK1) mRNA, complete cds
21 1 1120 218	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	Z.	EST HUMAN	F	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	IN	IN	TN	EST HUMAN	EST HUMAN	NT.	N	N-	N.	NT	LN	NT	NT	NT	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	NT L
;	Top Hit Acession No.	AA188730.1	6.0E-02 AA372376.1	6.0E-02 AA372376.1	6.0E-02 BE964443.2	6.0E-02 Z67739.2	6.0E-02 AW370211.1	5174698 NT	5174698 NT	6.0E-02 BF382349.1	AI204275.1		6.0E-02 AI623167.1	AJ245365.1	AJ245365.1	11431702 NT	3.1	719.1	39.1	2.1	9055249	- 6679870 NT	11433356 NT	33.1	-	1.7		5.8E-02 AW051927.1		5.1	5.1	14.1
	Most Similar (Top) Hit BLAST E Value	6.0E-02 AA1887	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02	6.0E-02 AI2042	6.0E-02	6.0E-02	6.0E-02 AJ2453	6.0E-02 AJ2453	6.0E-02	6.0E-02 Al80927	5.9E-02 AW9347	5.9E-02 AF1902	5.9E-02 AF0063	5.9E-02	5.9E-02	5.9E-02	5.9E-02 AJ24073	5.8E-02 D90110.	5.8E-02	5.8E-02 AE0017	5.8E-02	5.8E-02	6.8E-02 A124750	5.8E-02 AI24750	5.8E-02
	Expression Signal	1.22	1.2	1.2	6.0	1.17	3.46	2.86	2.86	1.97	2.05	1.19	1.19	1.79	1.79	1.95	1.84	3.42	2.59	0.88	1.87	2.72	3.15	1.99	4.35	1.1	1.44	4.36	4.36	4.21	4.21	2.04
	ORF SEQ ID NO:	19893	22921	22922		24551		24848	24849		26562		27407		27487	25294		20011	22681		27077		28509				23314	23931	23932	24132	24133	
	Exon SEQ ID NO:	10076	13116	13116	13497		15235			_ [17208	_1		19016	19256	10198	12882				18260	18655	10841	12759	13527	14156	14156	14341	14341	14365
	Probe SEQ ID NO:	2906	3191	3191	3583	4893	5314	6172	6172	6265	6524	7340	7340	7411	7411	9336	9715	229	2955	4770	7008	8165	8383	8845	917	2830	3613	4257	4257	4447	4447	4471

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Probe SEQ (D NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
6523	16382		2.79	5.8E-02	5.8E-02 M99150.1	TN	Human polymorphic microsatellite DNA
6523	16382		2.79	5.8E-02	5.8E-02 M99150.1	NT	Human polymorphic microsatellite DNA
9227	18948		2.34	5.8E-02	5.8E-02 AF220177.1	. LN	Drosophila melanogaster male fruitless type-A (fru) mRNA, complete cds
9518	19739		4.56		5.8E-02 AA604269.1	EST_HUMAN	no75e11.s1 NCI_CGAP_AA1 Homo sepiens cDNA clone IMAGE:1112684 3'
3018	12946	22738	1.34	5.7E-02	5.7E-02 Al081644.1	EST HUMAN	ou63b05.s1 NCI_CGAP_Br2 Homo saplens cDNA clone IMAGE:1632465 3' similar to WP:C37A2.2 CE08611;
3033	12961	22754	1.34	5.7E-02	5.7E-02 AF119117.1	N	Homo sapiens dopamine transporter (SLC6A3) gene, complete cds
3731	13643		1.8	5.7E-02	5.7E-02 AW966791.1	EST_HUMAN	EST378865 MAGE resequences, MAGI Homo sapiens cDNA
6740	16619		1.42	5.7E-02	5.7E-02 AJ296090.1	IN	Rattus norvegicus mRNA for potassium channel, alpha subunit (kv9.2 gane)
8524	18396	28661	3.86		5.7E-02 AI752685.1	EST_HUMAN	cn18b09.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC cn18b09 random
8524	18396	28662	3.86	l L	6.7E-02 AI752685.1	EST HUMAN	cn18b09.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA ctone NHTBC cn18b09 random
9437	19558		5:55		5.7E-02 D50320.1	NT	Pig DNA for SPAI-2, complete cds
3662	19630		2.47		5.7E-02 AF217490.1	NT	Homo saplens fragile 16D oxido reductase (FOR) gene, exons 8, 9, and partial cds
9626	19727		3.82	5.7E-02	5.7E-02 AF261280.1	TN	Pan troglodytes apolipoprotein E gene, complete cds
1510	11415	21274	0.86		5.6E-02 AF094455.1	NT	Hydrocotyle rotundifolia ribosomal protein L18 (rpl16) gene, intron; chloroplast gene for chloroplast product
4540	14433	24215	1.26		5.6E-02 AB013100.1	ŢŃ	Lycopersicon esculentum LE-ACS6 mRNA for 1-eminocyclopropane-1-carboxylate synthase complete ods
4598	14486				5.6E-02 AA290599.1	EST_HUMAN	zs45c01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:7004163'
6009	15913	26040	47.4	5.6E-02	5.6E-02 AW172708.1	EST HUMAN	xj02c10.x1 NC]_CGAP_U2 Homo sapiens cDNA clone IMAGE:2656050 3' similar to TR:094979 O94979 KIAA0905 PROTEIN.;
6241	16107				5.6E-02 BE008001.1	EST_HUMAN	QV0-BN0147-290400-214-g07 BN0147 Homo sapiens cDNA
7110	16987	27178			5.6E-02 BE542663.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo saplens cDNA clone IMAGE:3453279 5'
7110	16987				5.6E-02 BE542663.1	EST_HUMAN	601067158F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453279 5'
7647	17497	27719	1.15	5.6E-02	5.6E-02 AA482864.1	EST_HUMAN	nf49d07.s1 NCI_CGAP_Alv1 Homo sepiens cDNA clone IMAGE:923245 similar to TR:G769859 G769859 LAMINA ASSOCIATED POLYPEPTIDE 1C.
8850	18662		2.18	5.6E-02	5.6E-02 AF260225.1	F	Homo sapiens TESTIN 2 and TESTIN 3 genes, complete cds, alternatively spliced
2618	12486		8.16	5.5E-02	5.5E-02 X97869.1	NT	H. sapiens gene encoding La autoantigen
3179	13104		3.6	5.5E-02	755501	NT	Mus musculus SH3 domain protein 1B (Sh3d1B), mRNA
4777	14661			5.5E-02	5.5E-02 AF161286.1	NT	Muray Valley encephalitis virus strain MVE-1-51, complete genome
5472	15392			5.5E-02 Q01174	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE
5671	15392	25456	4.31	5.5E-02 Q01174	Q01174	SWISSPROT	TROPOMYOSIN ALPHA CHAIN, NON MUSCLE

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Oligio Lyon Tiones Lybressed III nealt	Top Hit Descriptor	Mus musculus tuftelin 1 (Tuft1), mRNA	Homo sapiens ell'4E-transporter (4E-T), mRNA	Homo sapiens elF4E-transporter (4E-T), mRNA	Mus musculus second IL11 receptor alpha chain (IL11Ra2) gene, exons 1 and 2	Citrobacter freundii DSM 30040 cyclopropane fatty acid synthase (cfa) gene, partial cds, dihydroxyacetone kinase (dhaK), diyoerol dehydroxense (dhaK), diyoe	dehydrogenase (dhaT), giyosrol dehydratase (dhaB).>	Oryza sativa rbbi3-1 gene for putative Bowman Birk tryosin inhibitor	RC5-BT0559-140200-012-C03 BT0559 Homo saplens cDNA	Xenopus laevis homeobox protein (Vox-1) mRNA, complete cds	Mus musculus p-glycoprotein (mdrla) gene, exons 1 and 2	Neurospora crassa ubiquinol-cytochrome c oxidoreductase subunit VIII (OCR8) mRNA, complete cds	Rana catesbiana heat shock protein 30 (HSP30) mRNA. complete cds	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA	QV0-ST0213-021299-062-a09 ST0213 Homo sapiens cDNA	ye37f12.r1 Strategene lung (#937210) Homo sapiens cDNA clone IMAGE:119951 5' similar to gb:K01506 HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DP(1) ALPHA CHAIN (HUMAN):	Pseudomonas putida ttgS gene	Drosophila melanogaster laminin B2 gene, complete cds	Drosophila melanogaster laminin B2 gene, complete cds	Pseudomonas putida ttgS gene	Arabidopsis thallana eli5 gene, exons 1-11	Mus musculus caudal type homeobox-1 (Cdx-1) gene, complete cds	Helicobacter pylori 26695 section 5 of 134 of the complete genome	Helicobacter pylori 26695 section 5 of 134 of the complete genome	Lymphocystis disease virus 1, complete genome	nuclear protein TIF1 isoform [mice, mRNA, 4053 nt]	Podospora anserina mitochondrial epsilon-sen DNA	Homo sapiens meprin A, alpha (PABA peptide hydrolase) (MEP1A) mRNA	Homo sapiens partial LMO1 gene for LIM domain only 1 protein, exon 1	Homo sapiens partial LMO1 gene for LIM domain only 1 protein, exon 1	Human steroid hormone receptor Ner-I mRNA, complete cds	Drosophila melanogaster filament protein homolog (sep1) gene, complete cds
ממון וומש מו	Top Hit Database Source				NT TN	0 3	<u>P</u>		1-	×	NT	IN	K	Т	EST_HUMAN O	EST_HUMAN H	Г	NT TN	Z			NI TN		H		LN	TN TN		I I			N D
Simo	Top Hit Acession No.	6755902 NT	10947034 NT	10947034 NT					7.					1			_			.1	3.1		7.1	7.1	9695413 NT			5031908 NT	.1	1		
	Most Similar (Top) Hit BLAST E Value	5.5E-02	5.5E-02	5.5E-02	5.5E-02 U69492.1		5.5E-02 09771.1	5.4E-02/	5.4E-02	5.4E-02 U53528.1	5.4E-02 M96761.1	5.4E-02 U20790.1	5.4E-02 U44894.1	5.3E-02/	5.3E-02	5.3E-02 T94759.1	5.3E-02 AJ276408	5.3E-02 M58417.1	5.3E-02 M58417.1	5.3E-02	5.3E-02 AJ011048	5.3E-02 M80463.1	5.3E-02 AE000527	5.3E-02 AE000527	5.3E-02	5.3E-02 S78221.1	5.3E-02 X03127.1	5.2E-02	5.2E-02 AJ277661	5.2E-02 AJ277661	5.2E-02 U07132.1	5.2E-02 L33246.1
	Expression Signal	1.58	1.3	1,3	1.48		11.56	0.95	6.34	0.92	Ŧ	1.79	1.55	1.62	1.62	18.21	3.14	3.91	3.91	4.59	1.22	7.26	1.76	1.76	3.87	1.94	1.78	439.66	2.34	2.34	3.35	1.04
	ORF SEQ ID NO:	26388	27632	27633	27689		28508			24563	24751	28223		20797	20798	21255	22222	22038	22639	22834	24185	24662	24955	24956	26145		27349		22793	22794	23854	24311
	Exen SEQ ID NO:	16228	17417	17417	17470		18259	12914	15078	14787	14976	17974	19552	10955	10955	11394	12324	12839	12839	13038	14399	14894	15180	15180	16009	16216	17153	12123	13003	13003	14081	14521
	Probe SEQ ID NO:	6365	7566	7566	7619		8382	2986	3375	4908	5108	8083	9323	1037	1037	1489	2447	2912	2912	3113	4506	5021	5258	5258	6115	6353	7276	2239	3076	3076	4181	4633

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Single Exon Probes Expressed in Heart

		72	T	Т	Т	Т	Т	Т	T	Τ	Т	Т	T	Т	Т	T	7	10	$\neg \neg$	7	7	Т	Ţ	T	T	T	T	Т	T	Т	T :	7
	.Top Hit Descriptor	wi80e04.x1 NCI_GGAP_Lym12 Homo sepiens cDNA clone IMAGE:2409150 3' similar to contains MER15.b1 MER15 repetitive element:	Hamo sapiens chromosome 21 segment HS21C004	Turnip mosaic virus genamic RNA for Capsid protein, complete cds	Turnip mosaic virus genomic RNA for Capsid protein, complete cds	OXALOACETATE DECARBOXYLASE ALPHA CHAIN	DKFZp547D073_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547D073 5'	601653565R2 NIH_MGC_55 Homo sapiens cDNA clone IMACE:3838361 3	QV0-UM0051-250800-350-b08 UM0051 Homo sapiens cDNA	Spodoptera littoralis mRNA for 3-dehydroecdysone 3beta-reductase	Candida albicans protein phosphatase Ssd1 homolog (SSD1) gene, complete cds	ANTER-SPECIFIC PROLINE-RICH PROTEIN APG (PROTEIN CEX)	Homo sapiens ES18 mRNA, partial cds	Homo sapiens ES18 mRNA, partial cds	Cucumis melo polygalacturonase precursor (MPG3) mRNA. complete cds	Mus musculus fatty acid amide hydrolase gene, exon 10	Bacillus subtilis complete genome (section 1 of 21): from 1 to 2/3080	SALIVARY ACIDIC PROLINE-RICH PHOSPHOPROTEIN 1/2 PRECURSOR (PRP-1/PRP-3) (PRP-2/PRP-4) (PRP-2/PRP-4) (PRP-2/PRP-4) (PIF-FIPIE-S) (PROTFIN A PROTFIN C) (CONTAINS: PEPTINE B. C)	Oryctolegus cuniculus UDP-glucuronosyltransferase (UGT2B13) mRNA complete cds	Mus musculus Unc-51 like kinase 2 (C. elegans) (UIK2), mRNA	Antheraea perny period clock protein homolog mRNA, complete cds	Homo sapiens ubiquitous tetratricopeptide containing protein RoXaN mRNA, partial cds	NEUROFILAMENT TRIPLET L PROTEIN (NEUROFILAMENT LIGHT POLYPEPTIDE) (NF-L)	Mus musculus Fas-interacting serine/threonine kinase 3 (Fist3) mRNA, complete cds	Methanococcus jamaschii section 142 of 150 of the complete genome	NO-ON-TRANSIENT A PROTEIN	Chicken 28-kDa vitamin D-dependent calcium-binding protein (CaBP-28) mRNA, complete cds	Homo sapiens ABCA1 (ABCA1) gene, complete cds	Homo sapiens ABCA1 (ABCA1) gene, complete cds	ATROPHIN-1 (DENTATORUBRAL-PALLIDOLUYSIAN ATROPHY PROTEIN)	248a12.s1 Strategene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632926 3' similar to contains Alu repetitive element contains element MSR1 repetitive element:	zf78a03.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:7284283'
פופ באטוו רוט	Top Hit Database Source	EST_HUMAN	N L	N	N	SWISSPROT	EST_HUMAN	EST_HUMAN	EST_HUMAN	N-	N	SWISSPROT	Z	Ę	N	NT	N.	SWISSPROT	N _T	Ę	Ŋ	NT	SWISSPROT	NT	۲	SWISSPROT	Z.	IN	TN	SWISSPROT	EST_HUMAN	EST HUMAN
5	Top Hit Acession No.	A1830965.1	AL163204.2	010927.1	J10927.1	203030	AL134071.1	5.1E-02 BE957423.2	3F378625.1	5.1E-02 AJ131966.1	5.1E-02 AF012898.1	240603	5.1E-02 AF083930.1	5.1E-02 AF083930.1	5.1E-02 AF062467.1	5.0E-02 AF098004.1	299104.1	02810	J72742.1	7305610 NT	112769.2	1F188530.1		8.1	J67600.1	204047	A14230.1	4.9E-02 AF275948.1	4.9E-02 AF275948.1	54258	4.9E-02 AA188940.1	A400914.1
	Most Similar (Top) Hit BLAST E Value	5.2E-02 A183096	5.2E-02 AL16320	5.2E-02 D10927	5.2E-02 D10927	5.2E-02 Q03030	5.1E-02 AL13407	5.1E-02	6.1E-02 BF37862	5.1E-02	5.1E-02	5.1E-02	5.1E-02	5.1E-02	5.1E-02/	5.0E-02	5.0E-02 Z99104.	5.0E-02 P02810	5.0E-02 U72742.	5.0E-02	5.0E-02 U12769.	5.0E-02 AF18853	5.0E-02 P35616	5.0E-02 AF30523	5.0E-02 U67600.1	5.0E-02 Q04047	4.9E-02 M14230.	4.9E-02/	4.9E-02	4.9E-02 P54258	4.9E-02	4.8E-02 AA40091
	Expression Signal	1.73	2.23	2.03	2.03	1.63	1.02	1.12	1.65	1.43	6.22	2.36	2.42	2.42	1.81	1.98	7.11	427	1.64	1.17	5.53	0.88	10.61	1.32	2.47	2.81	28.95	2.57	2.57	1.87	0.87	1.19
	ORF SEQ ID NO:			27677	27678			24620	24871	26930	27716	27944	28339	28340			20942	21726	20742		23330	24548	26477	27954	28886			20143	20144	22972		23262
	Exon SEQ ID NO:	15622	16647	17461	17461	19157	12194	14854	15108	16738	17495	17699	18088	18088	19159	10418	11096	11842	10894	13217	13543	14770	16311	17708	18597	19593	10188	10321	10321	13174	13438	13469
	Probe SEQ ID NO:	5714	6768	7610	7610	9561	2313	4979	8609	6828	7645	7849	8204	8204	9569	474	1188	1947	2788	3295	3629	4830	6450	7858	8782	9606	218	365	365	3251	3522	3543

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Γ	Г		Rat elastase II gene, exon 6	Rat elastase II gene, exon 6	Homo sapiens prepro placental TGF-beta gene, complete cds	Homo sapiens CS box-containing WD protein (LOC55884), mRNA	Human gamma-B-crystallin (gamma 1-2) and gamma-C-crystallin (gamma 2-1) genes. complete cds	Human mRNA, Xq terminal portion	Human mRNA, Xq terminal portion	Arabidopsis thaliana AP2 domain containing protein RAP2.7 mRNA, partial cds		Г	S.scrofa gene for skeletal muscle ryanodine receptor	Streptococcus constellatus D-alanine: D-alanine ligase gene, partial cds	Г	Rattus norvegicus Nestin (Nes), mRNA		Rat statin-related protein (s1) gene, complete CDS	B.taurus mRNA for RF-36-DNA-binding protein	H. saplens DNA for endogenous retroviral like element	Gallus gallus Wpkci-8 gene, complete cds	B.taurus mRNA for RF-36-DNA-binding protein	Mus musculus ligand of numb-protein X (Lπd), mRNA			Homo sapiens partial TUB gene for tubby (mouse) homolog and LMO1 gene for LIM domain only 1 profein	Escherichia coli K-12 MG1655 section 335 of 400 of the complete genome	
Jie Exon P	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	Į	NT	TN	TN.	NT	N	F	EST HUMAN	NT.	N	Z	EST HUMAN	N	EST HUMAN	N	LN	NT	NT	IN	IN	EST_HUMAN	SWISSPROT	NT	LN	EST_HUMAN
NIN	Top Hit Acession No.	4.9E-02 AA400914.1	4.9E-02 AW167821.1	4.9E-02 AW167821.1	4.9E-02 L00122.1		4.9E-02 AF008303.1	TN 08853880	4.9E-02 M19364.1	4.8E-02 D16471.1	4.8E-02 D16471.1	4.8E-02 AF003100.1	4.8E-02 W51983.1	4.8E-02 X17144.1		4.8E-02 U91914.1	4.8E-02 AW388497.1	6981261 NT	4.7E-02 W01153.1	4.7E-02 M62752.1		4.7E-02 X89211.1	4.7E-02 AB026678.1	4.7E-02 X15543.1	6754565 NT	4.7E-02 AV648521.1		4.7E-02 AJ277662.1	4.6E-02 AE000445.1	4.6E-02 Al014255.1
	Most Similar (Top) Hit BLAST E Value	4.9E-02	4.9E-02	4.9E-02	4.9E-02	4.9E-02	4.9E-02	4.9E-02	4.9E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.8E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02	4.7E-02 P52951	4.7E-02	4.6E-02	4.6E-02
	Expression Signal	1.19	1.89	1.89	1.94	1.94	3.78	2.26	3.67	1.45	1.97	7.54	1.92	2.12	1.67	1.28	1.31	0.78	3.41	1.65	9.71	1.18	2.63	7.44	1.76	2.35	2.35	1.39	2.74	1.06
	ORF SEQ ID NO:	23253	24404	24405	25023	25024	. 28805			20104	20104	20239	22014	22903		24722	26801	24586	26170	26117	26868	27245		27397	28270				20484	
	SEQ ID NO:	13459	14618		15220		18523	19107	19276	10287	10287	10424	12112	13097	14464	14946	16611	14818	16030	15981	16679	17056	17066	17197	18024	19740	19743	19365	10654	11177
	Probe SEQ ID NO:	3543	4733	4733	5239	5299	8705	9430	9751	327	328	480	2227	3172	4572	9209	6731	4940	6085	6134	0890	7179	7189	7321	8136	9305	9652	9881	722	1270

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Table 4
Single Exon Probes Expressed in Heart

		Т	72	Т	Т	Т	Т	7	Τ		Т	\top	1	_	$\overline{}$	7	$\overline{}$	Τ	τ	7	τ	τ	Т	7	7	7	7	_	_	7	
Shighe Exort Probes Expressed in Heart	Top Hit Descriptor	AV727059 HTC Homo sapiens cDNA clone HTCBWC01 6	xn24f03.x1 NCI_CGAP_Xid11 Homo saplens cDNA clone IMAGE:2694653 3' similar to SW:GRF1_HUMAN Q12849 G-RICH SEQUENCE FACTOR-1:	PM0-HT0339-251199-003-g05 HT0339 Homo sepiens cDNA	PMo-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA	PM0-HT0339-251199-003-g05 HT0339 Homo sapiens cDNA	Mus musculus nucleolar RNA helicase II/Gu (ddx21) gene, complete cds	C.reinhardti ap2 (atpB) mRNA	C.reinhardtii atp2 (atpB) mRNA	qc60b06.x1 Soares_placenta_gto9weeks_ZNbHP8to9W Homo sepiens cDNA done IMAGE:1713971 3' similar to contains L1.13 L1 repetitive element:	PM0-HT0339-060400-009-G12 HT0339 Homo saniens cDNA	ol27h09.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE-1524737 3'	Oryctolagus cuniculus macrophage scavenger receptor type II mRNA, complete eds	Human germline immunoglobulin lambda light chain gene	RETINOIC ACID RECEPTOR BETA (RAR-BETA)	Marburg virus strain M/S. Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds	Marburg virus strain M/S. Africa/Johannesburg/1975/Ozolin VP35 gene, complete cds	HEPATOCYTE NUCLEAR FACTOR 3-BETA (HNF-3B)	Xylella fastidiosa, section 110 of 229 of the complete genome	Homo sapiens chromosome 21 segment HS21C078	Homo sepiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17 gene	Arabidopsis thallana CCAAT-box binding factor HAP3 homolog gene, complete cds	EST28167 Cerebellum II Homo saplens cDNA 5' end similar to similar to neuro-04 protein	Homo sapiens ret finger protein-like 3 (RFPL3). mRNA	2443f11.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE -632463 51	601652154F1 NIH MGC 82 Homo saplens cDNA clone IMAGE:3935388 5	Drosophila melanogaster extradenticle (EXD) mRNA, complete cds	HYPOTHETICAL PROTEIN (ORF 2280)	QV2-PT0012-010300-070-g02 PT0012 Homo saplens cDNA	Myxococcus xanthus serine/threonine kinase Pkn10 (pkn10) gene, complete cds	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
gie Exon Pro	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	N.	NT	N L	EST HUMAN	EST HUMAN	EST HUMAN	INT	TN	SWISSPROT	NT	N	SWISSPROT	TN	IN	LN	TN	EST_HUMAN	NT	EST_HUMAN	EST HUMAN	LN	SWISSPROT	EST_HUMAN	NT	TN
DIO	Top Hit Acession No.	4.6E-02 AV727059.1	4.6E-02 AW236023.1	4.6E-02 BE153583.1	4.6E-02 BE153583,1			4.6E-02 X61624.1	4.6E-02 X61624.1	4.6E-02 AI149574.1			4.6E-02 L11692.1	-		4.5E-02 AF005730.1			4.1	4.5E-02 AL163278.2	4.5E-02 AJ400877.1	1		418013		4.4E-02 BE972733.1	4.4E-02 L19295.1		4.4E-02 AW875475.1	4.4E-02 AF159160.1	4.4E-02 AF109907.1
	Most Similar (Top) Hit BLAST E Value	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.6E-02	4.5E-02 P22448	4.5E-02	4.5E-02	4.5E-02 P32182	4.5E-02	4.5E-02	4.5E-02	4.5E-02	4.5E-02	4.5E-02	4.5E-02	4.4E-02	4.4E-02	4.4E-02 P31568	4.4E-02	4.4E-02	4.4E-02
	Expression Signal	2.74	2.51	1.51	0.98	0.95	1.22	3.64	3.64	1.31	3.65	3.58	1.34	2.68	1.84	0.85	0.85	3.55	2.04	3.83	1.54	2.3	4.43	1.74	3.41	4.79	1.29	6.15	1.29	1.88	1.08
	ORF SEQ ID NO:	21100	22212	20052		22703			25793	26200	27097				20207	20955	20956	21535	21850	23364	25794	26965	27793	25331	25009		20770		22214	23291	24203
	Exon SEQ ID NO:	11242	12315	10235	12904	12904	13936	15684	15684	16053	16906	18524	19738	19343	10383	11110	11110	11662	11953	13576	15685	16770	17568	19000	19637	10184	10926	11940	12317	13502	14420
	Probe SEQ ID NO:	1336	2438	2777	2977	3451	4033	5777	2777	6070	7029	8707	9633	9845	439	1200	1200	1763	2063	3662	5778	6891	77.18	9301	9691	213	1008	2049	2440	3588	4527

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Table 4
Single Exon Probes Expressed ir

		Τ.			٩			Γ										Γ	=		П		Τ	Г	Т	Г	Г	Γ.	Г		П
Single Exoll Plobes Expressed in Heart	Top Hit Descriptor	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene,	Order price COAAT on beautiful 1:	Inv/3h03 s1 NCI CGAP SS4 Home continue and a series of the	Hepatitis E virus strain HEV-US2 polyprotein (ORF1), (ORF3), and capsid protein (ORF2) genes, complete	appoint of Company Million to	Homo sanion: TDNA 6 VIA 44 4.00	FOLIST SEPTICES HINNEY OF NIAM 1493 protein, partial cds	Morone sexabilis mynein hearn chain Ed 27 (1714)	AV704878 ADB Home septens cDNA clans ADBA CHOR 2:	Homo sapiens chromosome 21 segment HS21 Chron	Homo sabiens premyelocytic lenkemie zinc finance postale. (ni zm.	Pea P4 organ specific general process (TLZF) gene, complete cds	PLECTIN	PLECTIN	Rat IGFII gene for insulinglike grouph forter il	AU123327 NT2BM2 Home seriens about Au12332 NT2BM2 H	A1123327 NT2RM2 Home capies CUNA Gone IN ZRMZ000020 5	w34g01.x1 NCI_CGAP_Pit1 Homo sapiens cDNA clone IMAGE:2545584 3' similar to TR:Q63291 Q63291	Thermonlasma acidonkilim committee	qy95f10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2019787 3' similar to qb:M35718	HINDER THOM IN FACTOR RECEPTOR BFR-2 PRECURSOR (HUMAN);	Figures to NAAU150 gene, partial cds	Al DLA ACTIVITY S NOW WINDOWS (Keth.) gene, complete cds	TERRING DECTENT TO SECULAR (FACTIN CROSS LINKING PROTEIN)	- U.S. S.	PM2-BN0174 250500 000 440 BN0174 nomo sapiens cUNA	PRRS Isolate PRRSV36 omisions of beneathers con a press con a contraction of the contract	wi49a10 x1 NCL CGAD Dany Home	Chlamydia minidanim section 60 of 65 of 4.	601177907F1 NIH MGC 17 Homo seniens ANA Almo NA CESSONES
gie Exori Pio	Top Hit Database Source	12	F	EST HUMAN	<u> </u>	FST HIMAN	ч	EST HIMAN	L	EST HUMAN	¥	N F	Ę	SWISSPROT	SWISSPROT	LN LN	EST HUMAN	EST HUMAN	HOT LI MAANI	L	TOTAL TANK	LOI TOWN	Į.	TOGGSSIMS	SWISSPROT	EST HIMAN	EST HIMAN	NT	ST HUMAN	NT	EST_HUMAN
5	Top Hit Acession No.	4.4E-02 AF109907.1	4.4E-02 A.1222689 1	4.4E-02 AA736969.1	4.4E-02 AF060669 1	4.4E-02 AA496739 1	1,0	Γ		2	2	2.					7.	-			,	Ī	-			22.1		-		2	_
	Most Similar (Top) Hit BLAST E Value	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.4E-02	4.3E-02	4.3E-02 AV70487	4.3E-02	4.3E-02	4.3E-02 X51594.1	4.3E-02 P30427	4.3E-02 P30427	4.3E-02 X17012.1	4.2E-02 AU123327	4.2E-02 AU123327	4.2E-02.AW00364	4.2E-02/	4 2F-02 AI403472	4.2E-02 D63484 1	4.2E-02 AF276752	4.2E-02 P05095	4.2E-02 016650	4.2E-02 BE815822	4.2E-02 BEB15822	4.2E-02 AF176458	4.2E-02 AI983494.	4.1E-02 AE002330	4.1E-02 BE297236
	Expression Signal	1.08	3.12	1.96	4.11	2.39	1.88	1.44	5.74	1.23	7.04	1.07	0.92	4.93	4.93	2.48	2.05	1.88	0.83	1.21	60	1.07	4.45	3.88	1.28	2.33	2.33	1.73	2.69	76.0	0.86
	ORF SEQ ID NO:	24204		27164	28552	02982			20532	22286	23101		24779	25944	25945	28372	20577		20654		22838		26470	27183	27941	28764	28765	28900	_	22401	23526
	Exen SEQ ID NO:	14420	14525	16961	18297	18405	18820	19753	10695	12395	13301	13523	15008	15820	15820	18122	10734	10775	10804	11592	13042	15038	16305	16991	17895	18492	18492	18609	19681	12510	13736
	Probe SEQ ID NO:	4627	4637	7084	8423	8533	9029	9210	764	2521	3383	3609	0141	5914	5914	8242	802	848	878	1690	3117	5172	6444	7114	7845	8627	8627	8795	9583	2643	3824

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Single Exon Probes Expressed in Heart

		ET (CYCTEINIE I VACE)	SEJ (C13) EINE LIASE)												33' similar to	Treconson,	5' similar to contains						OMOLOG)				3' similar to		SSGTTKAFINIVVLDRPG	ARTMMKVMKL;		
Single Exon Probes Expressed in Heart	Top Hit Descriptor	CYSTATHIONINE BETALYASE PRECURSOR (CRI.) (BETALCYSTATHIONASE) (CYSTATHIONING BETALYASE PRECURSOR (CRI.)	EST370539 MAGE resequences MAGE Home seniers CNNA	HYPOTHETICAL 80.7 KD PROTEIN IN SODI-CPA2 INTERGENIC REGION	Maize actin 1 gene (MAc1), complete cds	601644701R2 NIH MGC 56 Hamo sapiens cDNA clone IMAGE:3929737 3*	Llactis MG1363 grpE and dnaK genes	PM1-CT0326-291299-002-h03 CT0326 Homo saplens cDNA	PM1-CT0326-291299-002-h03 CT0326 Homo sapiens cDNA	601178765F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3543833 5	Homo sapiens mRNA for FLJ00013 protein, partial cds	Homo sapiens mRNA for FLJ00013 protein, partial cds	Homo sapiens mRNA for FLJ00013 protein, partial cds	Homo saplens mRNA for FLJ00013 protein, partial cds	xx26d07.xt Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2814253 3' similar to SW:C211 HUMAN P53801 PUTATIVE SURFACE GI YCOPROTEIN C210PE1 PDECI IDSOD	Homo sapiens hypothetical protein FLJ13220 (FLJ13220) mRNA	vc20e06.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:81250 5' similar to contains	MER29 repetitive element	Homo sapiens chromosome 21 segment HS21C008	RC3-FN0155-060700-011-d10 FN0155 Homo sapiens cDNA	RC6-UM0015-210200-021-A10 UM0015 Homo sapiens cDNA	M.musculus S-antigen gene promoter region	LA PROTEIN HOMOLOG (LA RIBONUCLEOPROTEIN) (LA AUTOANTIGEN HOMOLOG)	Caenorhabditis elegans mRNA for DYS-1 protein, partial	Human lysyl oxidase-like protein gene, exon 3	wi99d04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2433031 3	zq04f11.s1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628749 3' similar to	IR:G1017425 G1017425	IPISGKPLPKVTLSRDGVPLKATMRFNTEITAENLTINLKESVTADAGRYEITAANSSGTTKAFINIVVLDRPG	THE STANDINESSYLLING EPPRYDGGSQVINYILLKRETSTAVW TEVSATVARTMINKYMKL	Concernius orisens CYP2417 mRNA for concernational parts of the concernation of the co	chocking girseus of FZAT/ filling for cylocifone P450 ZAT/, complete cds
gie Exon Prop	Top Hit Database Source	SWISSPROT	EST HUMAN	SWISSPROT	N	EST_HUMAN	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Г	F		LN PA	EST HUMAN		Т	EST_HUMAN			L_HUMAN		/ISSPR0T			EST_HUMAN			EST LINAMINA	Т	LO LN	7
NO.	Top Hit Acession No.	P53780	AW958469.1	P47144	J01238.1	BE958970.1	X76642.1	3.5E-02 AW861641.1	3.5E-02 AW861641.1	3.5E-02 BE276948.1	4K024424.1	3.4E-02 AK024424.1	3.4E-02 AK024424.1	3.4E-02 AK024424.1	3.4E-02 AW274020.1	11345459 NT			١	<u>.</u>	52.1			-		1			3 4F-02 AA104308 1			
	Most Similar (Top) Hit BLAST E Value	3.5E-02 P53780	3.5E-02 AW95846	3.5E-02 P47144	3.5E-02 J01238.1	3.5E-02 BE95897	3.5E-02 X76642.1	3.6E-02	3.5E-02	3.5E-02	3.4E-02	3.4E-02	3.4E-02	3.4E-02/	3.4E-02	3.4E-02		3.4E-02 T57160.1	3.4E-02 AL163208	3.4E-02	3.4E-02 AW 79495	3.4E-02 X59799.1	3.4E-02/Q26457	3.4E-02 AJ012469	3.4E-02 U24393.1	3.4E-02 AI869629			3 45-02	3.3F-02.4	3.3E-02	2 3E 02 A
	Expression Signal	1.43	0.96	0.84	1.88	2.35	1.72	1.76	1.76	3.51	1.78	1.78	3.31	3.31	3.77	10.22		2.06	1.25	1.07	3.18	2.41	3.43	1.28	4.19	4.78			6.07	13.18	13.17	108
	ORF SEQ ID NO:	23895			25787	27082	27829	28889	28890		20310	20311	20310	20311	20795			22120	23102	23405	23550	24174		24650	24868					-	20907	21383
	Exon SEQ ID NO:	14118	14429	15021			17605	18600	18600	19582	10504	10504	10504	10504	10953	11098	,	12223	13302	13622	13756	14388	1400/	14884	15105	16687			17046	10324	11064	11525
	Probe SEQ ID NO:	4220	4536	5154	5773	7012	7755	8785	8785	9749	564	264	565	565	1035	1188	2,00	2343	3384	3709	3845	4494	4887	2010	6095	9898			7169	368	1151	1621

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SEQ ID SEQ ID NO:	ORF SEQ ID NO: 10 NO: 10 NO: 11 25901 12 25901 12 25901 13 25365 14 24333 15 25365 16 20868 17 28601 18 25365 18 25365 19 25365 19 25365 10 26903 10	Signal Signal Signal Signal 1.28 1.28 1.13 1.14 1.14 1.14 1.15 1.14 1.15 1.14 1.15 1.15	(Top) Hit BLAST E Vatue Vatue 3.3E-02 3.3E-02 3.3E-02 3.3E-02 3.2E-02	Top Hit Acession No. No. Ano. AE000700.1 R09112.1 AF110763.1 BF245995.1 BF245995.1 BF691107.1 T96545.1 AL002005.1 AF102894.1 AF102894.1 AF102894.1 AF102805.1 AF102805.1 AF102805.1 AF102805.1 AF102805.1 AF103805.1 AF13845.1 T89367.1 T89367.1 AF173845.1 BE873845.1 AF173845.1 B680565	Top Hit Dalabase Source Source NT EST HUMAN EST HUMAN EST HUMAN EST HUMAN NT	Aquifex aecticus section 32 of 109 of the complete genome 9785609.r1 Soares fetal fiver spleen 1NFLS Homo sepiens oDNA clone IMAGE:127889 5° Homo sepiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds Homo sepiens blook an artigen gp86 (Tra1), mRNA 801853910F1 NIH_MGC_67 Homo sepiens DNA clone IMAGE-4073787 5° 602873777F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE-4073787 5° 9048714.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-4073787 5° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-121101 6° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-121101 6° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-121101 6° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-121101 6° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens cDNA clone IMAGE-672389 6° 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens complete cds 1904511.r1 Soares fetal fiver spleen 1NFLS Homo sepiens complete cds 1904042431F1 NIH_MGC_65 Homo sepiens cDNA clone IMAGE-3846777 5° 190442431F1 NIH_MGC_65 Homo sepiens cDNA clone IMAGE-3846777 5° 190442431F1 NIH_MGC_68 Homo sepiens cDNA clone IMAGE-110087 3' similar to contains capters RP3 gene (MLRP gene 3) 19042431F1 NIH_MGC_8N gene 190442431F1 NIH_MGC_8N gene 1904442431F1 NIH_MGC_8N gene 19044441241 NIH_MGC_8N gene 1904442431F1 NIH_MGC_8N gene 19044441241 NIH_M
19487		1.38	3.2E-02	AB021684.1		Marchantia polymorpha genes for 263 RNA, 283 RNA, 583 RNA, 583 RNA and 263 RNA Homo sanians dual specificity when the second statement of the second s
11191	Ш	1.26	3.1E-02 P18845	4503416 P18845	ISSPROT	Homo sapiens dual specificity phosphatase 4 (DUSP4) mRNA NEURONAL ACETYLCHOLINE RECEPTOR PROTEIN, ALPHA-3 CHAIN PRECURSOR (GF-ALPHA-3)
	21621	1.35	3.1E-02	6671564 NT		Mus musculus adaptor-related protein complex AP-3, delta subunit (Ap3d). mRNA
1931 11826	-					CINITINAL CONTRACTOR C

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Table 4

Expression Signal Most Similar Top Hit Acession Pottabase Squirce Top Hit Acession Pottabase Squirce Top Hit Acession Pottabase Squirce 0.82 3.1E-02 AU119006.1 EST HUMAN 2.33 3.1E-02 AV835313.1 EST HUMAN 2.82 3.0E-02 AA278478.1 EST HUMAN 2.82 3.0E-02 AA402242.1 EST HUMAN 1.07 3.0E-02 AA402242.1 EST HUMAN 3.0E-02 AA402242.1 EST HUMAN 3.0E-02 AA402242.1 EST HUMAN 3.0E-02 AA402242.1 EST HUMAN 0.89 3.0E-02 AA364003.1 EST HUMAN 0.89 3.0E-02 AA364003.1 EST HUMAN 0.89 3.0E-02 AA364003.1 EST HUMAN 0.89 3.0E-02 AA242906.1 NT 2.71 3.0E-02 AB89948.1 EST HUMAN 3.0E-02 AA242906.1 NT 3.0E-02 AA889948.1 EST HUMAN 3.0E-02 AA88824.1 NT 3.0E-02 AA483216.1 EST HUMAN 3.0E-02 AA483216.1 EST HUMAN 3.0E-02 AA483216.1 EST HUMAN 3.0E-02 AA483216.1 EST HUMAN					รัก 	igle Exon Pro	Single Exon Probes Expressed in Heart
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7.7 3.0E-02 AA483216.1 EST HUMAN 1.66 3.0E-02 R32019.1 EST HUMAN 4.67 3.0E-02 R895565.1 EST HUMAN 2.09 3.0E-02 AF048687.1 NT 1.1 2.9E-02 AF228703.1 NT 1.07 2.9E-02 BE565644.1 EST HUMAN		28701	3.09	3.0E-02		Į.	Himan crossing fasts VII (EX)
1.66 3.0E-02 R32019.1 EST HUMAN 4.67 3.0E-02 AW895565.1 EST HUMAN 2.09 3.0E-02 AF048687.1 NT 1.1 2.9E-02 AF228703.1 NT 1.07 2.9E-02 BE565644.1 EST HUMAN		29039	7.7	3.0E-02		T HUMAN	negation of the right of the ri
4.67 3.0E-02 AW895565.1 EST_HUMAN 2.09 3.0E-02 AF048687.1 NT 1.1 2.9E-02 AF228703.1 NT 1.07 2.9E-02 BE565644.1 EST_HUMAN		24909	1.66	3.0E-02		┰╴	wh63df04.st Source placestable in the control of th
2.09 3.0E-02 AF048687.1 NT 1.1 2.9E-02 AF228703.1 NT 1.07 2.9E-02 BE565644.1 EST HUMAN			4.67	3.0E-02,		Т	2V4-NN0038-270400-187-h05 NN0038 Home scales CDNA clone IMAGE:134407 31
1.1 2.9E-02 AF228703.1 NT 1.07 2.9E-02 BE565644.1 EST HUMAN			2.09	3.0E-02	77		Saffus norvedicus UDP-Gal'rdi ironsufrensemide hota 4 4 - 14 - 4 4 - 14 - 14 - 14 - 14 - 1
1.07 2.9E-02 BE565644.1 EST HUMAN		22157	7	2.9E-02			Homo sapiens mitochondrial glutathione reductase and cytosolic glutathione reductase (GRD1) gene,
	1 1	22687	1.07	2.9E-02	Τ	T HUMAN	S01338238F1 NIH MCC 62 U

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					Sin	gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession · No.	Top Hit Database Source	Top Hit Descriptar
2962	12889	22688	1.07	2.9E-02	2.9E-02 BE565644.1	EST HUMAN	601338428F1 NIH MGC 53 Homo sanians CONA Alan IMA OF 2000000 21
3851	13762	23555	0.92		2.9E-02 H72805.1	EST HUMAN	W07e10.r1 Scares fetal liver sulpen 1NFI S Home smiles a DNA July 17.000.0000
4950	14827	24593	1.32	2.9E-02	2.9E-02 X65137.1	N I	S. vulgare pepC gene for PFP carhowlassa
4950	14827	24594	1.32		2.9E-02 X65137.1	N-1	S. vulgare peoC gene for PFP carhowlase
5799	15705	25817	6.47	2.9E-02	2.9E-02 BF032233.1	EST HUMAN	601452661F1 NIH MGC 68 Homo saniens CONA Clara INVA CE-2056520 FI
6298	16162	26319	10.33	2.9E-02	2.9E-02 BE271437.1	EST HUMAN	60140729F1 NH MGC 9 Home sentence CIMA Alena MACE CARRES ET
7568	17419	27635	1.94	2.9E-02	2.9E-02 AW875979.1	EST HUMAN	CMS-PT0014-071299-051-014 PT0014 Home series ability
7568	17419	27636	1.94	2.9E-02	2.9E-02 AW875979.1	EST HUMAN	CM3-PT0014-071299-051-504 PT0014 Homo socione to the
553	10494		0.87	2.8E-02	2.8E-02 AW970153.1	EST HUMAN	EST387234 MAGE resembnes MACK Home series China
3321	13241	23046	1.27	2.8E-02	2.8E-02 AF066063.1	LN	Homo sapiens refinal fascin (FSCND) cone 2000
3321	13241	23047	1.27	2.8E-02	2	LN	Home series retiral face in (FSCNO) and
4214	14112		0.98	2.8E-02	R303754	LN	Potter proposition and activity general activity and activity and activity
5373	<u>l_</u>	25140	11.41	2.8E-02	BE741083 1	EST HIMAN	Frames have grown microundule-associated protein tau (Mapt), mRNA
6847	L	26920	1 33	2 RE-02	: -	LA LA	Construction Internal States of March 1997 States o
9674	L		1.51	20 HE-03		FOT LIMANI	Graderosugina piantagineum mKNA for homeodomain leucine zipper protein (hb-1)
0000	L			2.0L-02		EST FIORMAIN	M1ZnuZrl Soares fetal liver spiecen 1NFLS Homo sapiens cDNA clone IMAGE:126675 5
0808	1923/		1.33	2.8E-02	2.8E-02 X06322.1	본	Yeast CN31C chromosome III RAHS DNA (right arm transcription hot-spot)
							Human germline T-cell receptor beta chain Donamina buta bushood illo 1004 11004
							TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3
1473	11378	21242	1.26	2.7E-02	2.7E-02 U66059.1	F	TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T,
3385	13303	23103	2	2.7E-02	27	N	Arabidoosis thaliana DNA chromosome 4 contra formant N.E.
4107	14007	23783	2.07	2.7E-02		EST HUMAN	W86h12r1 Scares multiple sclemes 2NhHMSD Lime amine Chita 1
4107		23784	2.07	2.7E-02		EST HUMAN	W86f12_rl Soares multiple sclenais 2NhUMSD Lime amine 2014 cone 1MAGE:28048/ 5
6205		26099	1.9	2.7E-02	+	EST HUMAN	0996h03.s1 Soares total fetus Nb2HFR our Homo sensions CDNA crotte Interface 15
9648	[25134	1.52	2.7E-02		EST HUMAN	UH-BW1-en-F-05-0-UI st NCI CGAP Sub7 Home septem curve could intract to 24901 3
223	_ [20305	1.14	2.6E-02		LN	Homo sapiens chromosome 21 segment HS91Cn82
1345			1.04	2.6E-02		EST HUMAN	IL3-CT0219-280100-062-C09 CT0219 Hrmn sanlens cDNA
2315		22093	29	2.6E-02	2.6E-02 AA490021.1	EST_HUMAN	ab02b02.s1 Stratagene fetal retina 937707 Home saniare cDNA class MACE assess at
2317	12198	22095	2.86	2.6E-02	6754241 NT	1	Mus musculus histidine rich calcium hindino professor (Mos musculus histidine rich calcium hindino professor mona
2317	12198	22096	2.86	2.6E-02	6754241 NT	TN.	Mus musculus histidine rich calcium binding protein (Hrc.) mRNA
2000			•				Mus musculus MHC class III region RD gene, partial cds; Bf, C2, G9A, NG22, G9, HSP2n, HSP2n, HSC7n+
0007		1	1.55	2.6E-02		LN.	and smRNP genes, complete cds; G7A gene, partial cds; and unfortunated
3883	13794	1	1.13	2.6E-02	5.1	EST HUMAN	xj68f09.x1 Soares_NFL_T_GBC_S1 Homo sapiens CDNA clone IMAGE: Sepanda
4517	14410		1.13	2.6E-02	2.6E-02 BE968922.1	EST_HUMAN	601649877R1 NIH_MGC_74 Homo saplens cDNA clone IMAGE:3933786 3

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Table 4

					Sin	gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4811		24481	3.69	2.6E-02	2.6E-02 L12032.1	Ľ	Ohicken dosalin-1 mRNA complete cde
4998	14873	24637	1.67	2.6E-02	2.6E-02 AE002014.1	N	Deinococcus radiodurans R1 section 151 of 220 of the complete the
5025	14898	24667	2.06	2.6E-02	2.6E-02 AW241154.1	EST HIMAN	xa52b04.x1 NCI_CGAP_Sar4 Homo sapiens CDNA clone IMAGE:2570383 3' similar to SW:Y069_HUMAN_01504 HYPOTHETICAL BEOTERN KIA AMOOG
5771			6.95	2.6E-02	2.6E-02 AI206030.1	EST HUMAN	ad2771.x1 NC CGAP Kit3 Home saniens CDNA class (NACE 1752517 of
5870			2.08	2.6E-02	2.6E-02 BE621748.1	EST HUMAN	100149347311 NIH MGC 70 Home sanlars CDNA clore IMACE: 20055577 3
6130			6.09	2.6E-02	6981271 NT	L	Rattus norvegicus Nerve growth factor recentor fast (North mon.)
7388]		1.19	2.6E-02	11432020 NT	L'N	Homo sepiens KIAA1070 protein /KIAA1070 DNA
7948	_	28038	4.87	2.6E-02	2.6E-02 AL163303.2	Į.	Homo saciens chromosome 21 segment HS21C103
8692			2.1	2.6E-02	AA279351.1	EST HUMAN	2884002.11 NCI CGAP GCR1 Home senions of DNA clare INA CE 7204 CC E
8848	_ 1		1.89	2.6E-02	2.6E-02 AW500547.1	EST HUMAN	UHF-BNO-eki-e-10-0-ULT NIH MGC 50 Home senions of Nik Al-
9320			1.55	2.6E-02	l	EST HUMAN	602015501F1 NCI COAP BINGE Home control of the link of the bing of the bindividual bing of the bing of the bing of the bing of the bing of
521	10463	20274	1.45	2.5E-02		EST HUMAN	IONZEROE VS NCI CGAP I 115 Home senions of NA Alexa NAA CELAETHAN
521		20275	1.45	2.6E-02	-	EST HUMAN	on 28706 v5 NC CGAP 115 Home emilians of NA of the 144 OF the second of the 144 OF the
792			12.83	2.5E-02	2	EST HUMAN	601680305R2 NIH MGC B3 Homo sentions CDNA class MA CE consider at
821	J	20628	4.77	2.5E-02	Γ	EST HUMAN	601680305R2 NIH MGC 83 Home sapiers CDNA clans IMA CE 201605 3
2736			2.59	2.5E-02	2.5E-02 U12571.1	L	Retus novveolous rehntilin-34 mRNA compate add
2926		22652	4.4	2.5E-02		TN	H.centerae mRNA for firexpentition chickenship of the state of the sta
2926		22653	4.4	2.5E-02		Z	Hoarterse mRNA for filoxyanthin chloromy ale binding protein, rop1
3959		23643	1.09	2.5E-02	5.1	EST HUMAN	PM2-NN0128-080700-001-a12 NN0128 Home continue protein, repri
3929	15070	23644	1.09	2.5E-02	2.5E-02 BE701165.1	II .	PM2-NN0128-080700-001-412 NN0128 Home confidence CDNA
4111	14011	23788	5.07	2.5E-02		EST HUMAN	hf36h08.xf Soares NFL T GBC S1 Hamo saniens cDNA Johns IMAGE: 2021.42 21
5759	15667		4.48	2.5E-02	2.5E-02 BE670128 1	FST HIMAN	7e30e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284008 3' similar to contains L1.t1 L1
2267	15674		3.86	2.5E-02		EST HIMAN	And Expanse Table 1 Mee of the contract of the
6219	16378	26555	1.57	2.5E-02		EST HIMAN	1010107056251 NCI CGAP Bries U.
6519	16378	26556	1.57	2.5E-02	-	EST HIMAN	CONTROLL INC. CONTROLL FIGURE SCHAR CIGHE INACE: 4213406 5
8185	18071	28320	2.45	2.5E-02 Q10335		SWISSPROT	HYPOTHETICAL 48 7 KD BEOTEIN 2400.2 2 11 2 12 2 13406 5'
8185	18071	28321	2.45	2.5E-02 Q10335		SWISSPROT	HYPOTHETICAL 46.7 KD PROTEIN C19610.05 IN CHROMOSOME
8238	18/18	28370	3.38	2.5E-02	2.5E-02 AJ237936.1	TN	Bos taurus partial stat5B gene, exons 17-19
8255	18135		333	2.5F-02	25F-02 AF050457 4	Ė	Mus musculus major histocompatibility locus class II region: major histocompatibility protein class II alpha chain (IAalpha) and major histocompatibility protein class II beta chain (IEbeta) genes, complete cds;
8978	18783		1.74	2.5E-02/			Dutyrophilin-like (NG9), butyrophilin-li> Homo saniens nene for LECT2
							some square gare to LECTZ, complete cas

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				10 10	ăin l	gle Exon Proi	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
9280	19657		2.19	2.5E-02	11420078 NT	TN	Homo saplens similar to ALEX3 protein (H. sapiens) (LOC63634), mRNA
9463			1.63	2.5E-02	11433220 NT	F	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
9581	19167	25271	239	2.5E-02	2.5E-02 BE973327.1	EST_HUMAN	601652365R2 NIH_MGC_82 Homo sapiens cDNA clone IMAGE:3935513 3'
167		19956	1.01	2.4E-02	-	EST_HUMAN	tc72c07.xd Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2070156.37
1580			1.89	2.4E-02	-	EST_HUMAN	W75f11.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:211149 5
1998		21784	2.22	2.4E-02 P01901		SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K/B))
1998	12710		2.22	2.4E-02 P01901		SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K(B))
4272	14171	23948	1.4	2.4E-02		Z	T.thermophila calcium-binding 25 kDa (TCBP 25) protein mRNA, complete cds
4420	14314	24099	1.43	2.4E-02		SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K/B))
4420	14314	24100	1.43	2.4E-02		SWISSPROT	H-2 CLASS I HISTOCOMPATIBILITY ANTIGEN, K-B ALPHA CHAIN PRECURSOR (H-2K/R))
5119	14987		11.51	2.4E-02	2.4E-02 AL 161595.2	NT	Arabidopsis thaliana DNA chromosome 4, config fragment No. 91
6962	16840	27032	10.36	2.4E-02		EST HUMAN	2835g11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA done IMAGE:294596 3' similar to oblK02909IRATSR7K Raf (rRNA) contains A3R in A3R renetiting element
7643			2.17	2.4E-02	2.4E-02 AV692954.1	EST HUMAN	AV692954 GKC Homo sapiens cDNA clone GKCDSC03 6
7734	17584	27808	2.98	2.4E-02	-	EST HUMAN	nh07b12.s1 NCI_CGAP_Thy1 Homo saplens cDNA clone IMAGE:943583 similar to contains Alu repetitive element.contains element PTR5 repetitive element.
8857	18669	28956	1.96	2.4E-02	2.4E-02 AF109905.1	Į.	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MutS homolog, CLCP, NG24, NG25, and NG26 genes, complete cds; and internal genes.
							Color I Morris and Color
8857	18669	28957	1.96	2.4E-02	2.4E-02 AF109905.1	F	Mus musculus major histocompatibility locus class III regions Hsc70t gene, partial cds; smRNP, G7A, NG23, MutS homelon Cl CP NG24 NG25 and NG26 genes commissed and control of the NG26 and NG26 genes commissed and control of the NG26 and NG26 genes commissed and control of the NG26 and NG26 genes commissed and control of the NG26 and NG26 genes commissed and control of the NG26 genes control of the NG26 ge
9080	18856		1.95	2.4E-02	27909	LN	Bacteriophage bl.67, complete genome
9224		25357	2.72	2.4E-02	6753635 NT	LN	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA
9282	- 1	25326	2.03	2.4E-02		EST_HUMAN	MR0-FT0175-310800-202-a06 FT0175 Homo sapiens cDNA
9368	19036		1.27	2.4E-02	2.4E-02 AF163864.1	L	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9505	19120		3.87	2.4E-02	2.4E-02 AB008569.1	TN	Caenorhabditis elegans mRNA for iron-sulfur subunit of mitochondrial succinate dehydrogenase, complete cds
9532	19138		1.6	2.4E-02	2.4E-02 N42980.1	EST HUMAN	1908a06.r1 Soares melanocyte 2NbHM Homo sabiens cDNA clone IMAGF-770810.5
9538			1.38	2.4E-02	77.1	EST HUMAN	602153281F1 NIH MGC 83 Homo sapiens cDNA clone IMAGE:4294173 5
226			1.59	2.4E-02 P54643		SWISSPROT	SPORE COAT PROTEIN SP87 PRECURSOR (PL3 PROTEIN)
1829	_l		5.79	2.3E-02		EST_HUMAN	za84g08.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE 299294 5
1844	- [7.89	2:3E-02		NT	4 Homo sapiens mammary tumor-associated protein INT6 (INT6) gene, exon 4
2302	12183	22081	2.52	2.3E-02 Z74293.1		NT	S.cerevislae chromosome IV reading frame ORF YDL245c

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Single Exon Probes Expressed in

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Single Exon Probes Expressed in Heart

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Table 4
Single Exon Probes Expressed in Heart

					Homo						s MER1.13	00 (17	go /w															17					
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA	aa15b10.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5'	Mus musculus DinB homolog 1 (E. coli) (Dinb1), mRNA	Homo sapiens genomic region containing hypervariable minisatellites chromosome 1[1p36.33] of Homo sapiens	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA	Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA	Homo sapiens hypothetical protein FLJ10486 (FLJ10486), mRNA	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32	7g51c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3309998 3' similar to contains MER1.t3 MFR1 renefitive element	Mis missellis sema domain franchiamphrana domain (TM) and extendencial (commandate) and	(Semably, mRNA	Arabidopsis thallana C2H2 zinc finger protein FZF mRNA, complete cds	P.vulgaris hydroxyproline-rich glycoprotein (HRGP) mRNA, 3' end	Homo sapiens chromosome 21 segment HS21C078	aa15b10.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5'	Japanese encephalitis virus envelope protein mRNA, partial cds	wa17b02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2298315 3'	Mycobacterium tuberculosis H37Rv complete genome; segment 93/162	Equus caballus DNA for 17alpha-hydroxylase/17,20-lyase, complete cds	Homo sapiens ankyrin 3, node of Ranvier (ankyrin G) (ANK3), transcript variant 1, mRNA	Homo saplens ankyrin 3, node of Ranvier (ankyrin G) (ANK3), transcript variant 1, mRNA	aa15b10.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:813307 5	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 32	601478819F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3881477 5'	yd04c09.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:24675 5'	nf19a07.s1 NCL CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914196 similar to contains L1.ft L1	repetitive element;	EMPTY SPIRACLES HOMEOTIC PROTEIN	Homo sapiens chromosome 21 segment HS21C103	Homo saplens chromosome 21 segment HS21C103	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50
noza eli	Top Hit Database Source	NT	EST_HUMAN	IN	TN	N	L	L	NT	N	NAMI IH TRE	NICHOLI 194	TN	L	LN L	TN	EST_HUMAN	LN	EST_HUMAN	NT	NT	TN	IN	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN		EST_HUMAN	SWISSPROT	NT	TN	NT
	Top Hit Acessian No.	6753635 NT	\A456538.1	6753635 NT	AL096805.1	TN 1622398	TN 8922391	8922453 NT	8922453 NT	VL161532.2	REUDOSO 1	1.002005. 1	7305474 NT	4F095588.1	A18095.1	VL163278.2	8.1		.1)88184.1	10947055 NT	10947055 NT	4A456538.1	VL161532.2	2.0E-02 BE786595.1	80037.1		64.1		NL163303.2	1.9E-02 AL163303.2	NL161550.2
		2.0E-02	2.0E-02 AA45653	2.0E-02	2.0E-02 AL096808	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02 AL16153	2 0E-02 RE00393	5.0C.02	2.0E-02	2.0E-02 AF09558	2.0E-02 M18095.	2.0E-02 AL16327	2.0E-02/	2.0E-02 U70408.1	2.0E-02	2.0E-02 Z73966.1	2.0E-02 D88184.1	2.0E-02	2.0E-02	2.0E-02 AA45653	2.0E-02 AL 18153	2.0E-02	2.0E-02 T80037.1		1.9E-02 /	1.9E-02 P18488	1.9E-02 AL 163300	1.9E-02 /	1.9E-02/
	Expression Signal	2.63	262	1.75	0.97	1.61	1.61	2.31	2.31	1.75	1 06	G.	1.16	3.33	1.5	0.99	0.99	1.8	1.59	2.01	2.55	3.09	3.09	1.41	1.56	1.72	4.08		1.68	0.84	2.52	2.52	0.87
	ORF SEQ.	20040	20077	20550	20830	20938	20939	21600	21601		19795	200			23614	24725	24730		28019	28175	28849	29031	28032	24730					20432	21364	21779	21780	22230
	Exon SEQ ID NO:	10225	10256	10711	10987	11092	11092	11727	11727	12630	10004		13031	13114	13834	14949	14955	17529	17780	17929	18566	18739	18739	14955	12630	19536	19404		10611	11504	. 1		12335
	Probe SEQ ID NO:	259	292	781	1071	1181	1181	1830	1830	2768	3040	3	3105	3189	3925	5079	5085	7679	7930	8037	8678	8931	8931	9019	9481	9928	9935		678	1599	1993	1993	2458

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		_		~		_		_	_	_		_	_ _	_	_	_	_		.	_			_	_	_		_	_	_		
Single Extra Flobes Expressed in hear	Top Hit Descriptor	INVO4f05.81 NOI_CGAP_SS1 Homo sepiens cDNA done IMAGE:1238337.3'	AV648669 GLC Homo saplens cDNA clone GLCBLH07 3'	Urotrichus talpoides mitochondrial gene for cytochrome b, complete cds	yz28b02.s1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:284331.3'	601572682F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3839564 5'	qn04c07.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1897260 3' similar to contains Alu repetitive element.	Mycoplasma imitans VIhA1 precursor (vIhA1) and VIhA2 precursor (vIhA2) genes, partial cds	HOMEOTIC BICOID PROTEIN (PRD-4)	HOMEOTIC BICOID PROTEIN (PRD-4)	146d04.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sepiens cDNA clone IMAGE:2144551 3' similar to contains Alu repetitive element:	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 50	Meleagris gallopavo paraoxonase-2 (PON2) mRNA, complete cds	Neisseria meningitidis serograup A strain Z2491 complete genome; segment 3/7	601896130F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125462 5'	601852385F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4076253 5'	Hirudo medicinalis intermediate filament gilarin mRNA, complete cds	hn52c06.x1 NCI_CGAP_Co17 Homo sapiens cDNA clone IMAGE:3027274 3' similar to contains element MER29 repetitive element;	601894329F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4139983 5'	H.francisci mRNA for myelin basic protein (MBP)	Drosophila melanogaster cytoplasmic protein encare (enc) mRNA, complete cds	Pseudomonas aeruginosa PA01, section 105 of 529 of the complete genome	te52a09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2090296 3'	MR1-OT0011-280300-009-g04 OT0011 Homo sapiens cDNA	MR1-OT0011-280300-009-g04 OT0011 Homo sapiens cDNA	ak24h04.s1 Soares_testis_NHT Homo sapiens cDNA done IMAGE:1406935 3'	QV4-DT0021-301299-071-b11 DT0021 Homo sapiens cDNA	HYPOTHETICAL PROTEIN DJ845024.2	qm06b04.x1 NCI_CGAP_Lu5 Hamo sapiens cDNA clone IMAGE:1881007 3'	HYPOTHETICAL 7.9 KD PROTEIN IN FIXW SIREGION	aj62f09.s1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:1394921 3' similar to gb:L11672 ZINC FINGER PROTEIN 91 (HUMAN);
gie Exori Pio	Top Hit Datebase Source	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	EST_HUMAN	EST HUMAN	N L	SWISSPROT	SWISSPROT	EST HUMAN	L	L L	R	EST HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	F	NT	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	SWISSPROT	EST_HUMAN	SWISSPROT	EST_HUMAN
illo	Top Hit Acession No.	1.9E-02 AA713856.1	1.9E-02 AV648669.1	1.9E-02 AB033611.1	1.9E-02 N52250.1	1.9E-02 BE738088.1	1.9E-02 Al301183.1	1.9E-02 AF141940.1	P09081	P09081	1.9E-02 Al452999.1	1.9E-02 AL161550.2	1.9E-02 L47572.1	1.9E-02 AL162754.2	1.9E-02 BF316129.1	1.9E-02 BF695832.1	1.9E-02 AF101065.1	1.8E-02 AW771104.1	1.8E-02 BF308122.1	1.8E-02 X17664.1	1.8E-02 AF243382.1	1.8E-02 AE004544.1	1.8E-02 AI805829.1	1.8E-02 AW879122.1	1.8E-02 AW879122.1	1.8E-02 AA861446.1	1.8E-02 AW936363.1	060810	1.8E-02 AI288701.1	P14310	1.8E-02 AA897543.1
	Most Similar (Top) Hit BLAST E Value	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02 P09081	1.9E-02 P09081	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.9E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02	1.8E-02 060810	1.8E-02	1.8E-02 P14310	1.8E-02
	Expression Signal	7.08	1.53	0.82	1.25	5.75	. 0.98	1.14	1.47	1.47	2.51	1.9	1.29	1.29	1.47	1.31	2,55	1.44	1.14	1.34	1.23	1.51	0.89	1.09	1.09	1.15	1.44	1.05	1.06	3.96	2.49
	ORF SEQ ID NO:	22596	22650				23355	23646	23777	23778	24125		25106		27452	27859	25137	20117	20421	20900	21187	22403		23513	23514		24011	24532	24543	26207	
	Exon SEQ ID NO:	12802	12850	13146	13474	13658	13568	13868	13999	13999	14335	12335	15276	16862	17246	17627	19516	10302	10604	11057	11323	12512	13099	13724	13724	13903	14229	14753	14767	16058	17411
	Probe SEQ ID NO:	2875	2923	3222	3560	3644	3654	3961	4039	4099	4441	4944	5356	6985	7377	m	9234	343	670	1144	1417	2645	3174	3812	3812	3996	4332	4873	4887	6075	7560

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Single Exon Probes Expressed in Heart

Olligia Externational Expressed III reality	Top Hit Descriptor	601463545F1 NIH_MGC_67 Homo saplens cDNA clone IMAGE;3866963 57	Lstagnalis mRNA for myomodulin neuropeptide precursor	Homo sapiens mRNA for KIAA0339 protein, partial cds	Homo sapiens mRNA for KIAA0339 protein, partial cds	Pyrococcus horikoshil OT3 genamic DNA, 1166001-1485000 nt. position (6/7)	Zea mays acidic ribosomal protein P2a-3 (rpp2a-3) mRNA, partial cds	Drosophila melanogaster projectin (projectin) gene, partial cds	601310626F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632190 5'	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains L1.ft L1 repetitive element;	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IWAGE:2933740 3' similar to contains	L1.t1 L1 repetitive element;	Horno sapiens chromosome 21 segment HS21C004	Oryctolagus cuniculus mRNA for mitsugumin29, complete cds	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA	qb22a08.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1696982 3	hm45a04.x1 NCI_CGAP_RDF1 Homo sapiens cDNA done IMAGE:3015534 3' similar to contains	MEN 19.5) MEN 19 topolaye element,	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	ac19f04.s1 Stratagene ovary (#937217) Homo sapiens cDNA clone IMAGE:856927 3' similar to contains Alu repetitive element;contains element dER24 repetitive element;	ye86f08.rf Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:124647 5'	hf34a03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933740 3' similar to contains	L.I.L. I epunya esement,	Messenger KNA for anglerish (Lopnius americanus) somatostatin II	ov51e02.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1840858 3'	Murid herpesvirus 4 complete genome	wg35f09x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA done IMAGE:2367113 3' similar to	contains Alu repetitive element,	Homo sapiens nebulin (NEB), mRNA	Homo sapiens hyperion gene, exons 1-50	DKFZp434l0314_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434l0314 5'	CM4-NN1030-040400-130-f06 NN1030 Homo sapiens cDNA	PISTIL-SPECIFIC EXTENSIN-LIKE PROTEIN PRECURSOR (PELP)
E EXUIT FLODE	Top Hit Database Source	EST_HUMAN 6	NT	H	H	NT		O LN	EST_HUMAN 6	EST HUMAN IL	Т	THUMAN	H IN			EST_HUMAN q			SWISSPROT H	EST HUMAN R	EST_HUMAN y		HOMAN		EST_HUMAN o			T_HUMAN				HUMAN	SWISSPROT
Silis	Top Hit Acession No.	1.8E-02 BE778274.1		1.8E-02 AB002337.2	1.8E-02 AB002337.2	1.8E-02 AP000006.1		1.8E-02 AF047475.1	1.7E-02 BE394869.1	1.7E-02 AW573183.1				1.7E-02 AB004816.1	7657495 NT	1.7E-02 AI147615.1		1 000		1.7E-02 AA669618.1	1.7E-02 R02506.1		1.2		1	1.7E-02 AF105037.1		1.7E-02 AI769247.1	00716	.1		482.1	
	Most Similar (Top) Hit BLAST E Value	1.8E-02	1.8E-02 X96933.1	1.8E-02	1.8E-02	1.8E-02	1.8E-02 U62749.1	1.8E-02	1.7E-02	1.7E-02		1.7E-02	1.7E-02	1.7E-02	1.7E-02	1.7E-02		1.75-02/	1.7E-02 P04929	1.7E-02	1.7E-02	,	1./E-02	1.7E-02	1.7E-02	1.7E-02		1.7E-02	1.7E-02	1.7E-02	1.7E-02	1.7E-02	1.7E-02 Q03211
	Expression Signal	1.51	1.23	1.78	1.78	1.76	3.12	1.29	1.29	2.24		2.24	3.08	13.03	1.35	0.92		4.17	0.88	0.98	1.78		1.24	1.77	5.27	5.47		1.53	2.31	1.81	1.48	2.25	1.96
f	ORF SEQ ID NO:	27873	27966	28126		28991	29000		20662	21519		.21520				22695								24291		24612	L		26298				
	Exan SEQ ID NO:	17640	17721	17884	17884	18697	18706	19496	10814	11650	1_	11650	11725		12471	12895	L		13487	13980	14005	l			14594	14842	1		16140	16412	17443		19352
	Probe SEQ ID NO:	7790	7871	8735	8735	9888	8897	9912	888	1750		1750	1828	2066	2603	2968		3407	3573	4078	4105		4427	4615	4708	4967		5725	6276	6554	7592	9781	9861

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Single Exon Probes Expressed in Heart

					SIIC	le Exon Prop	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
501	10443		1.58	1.6E-02	1.6E-02 AL021929.1	N	Mycobacterium tuberculosis H37Rv complete genome; segment 13/162
1635	11539	21399	1.13	1.6E-02	1.6E-02 Y18889.1	L L	Treponema maltophilum flaB2, flaB3 and fliD genes for flagellin subunit proteins and CAP protein homologue
2202	<u>L</u>	21990	1.13	1.6E-02 Q64176	Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2202	12089		1.13	1.6E-02 Q64176		SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
2518	3 12392		0.98	1.6E-02		NT	Homo sapiens KVLQT1 gene
2606	l_	22368	1.47	1.6E-02	1.6E-02 AA484872.1	EST_HUMAN	ne81d06.s1 NOL CGAP_Ew1 Homo sapiens cDNA clone IMAGE:910667
2662	L	L	1.14			NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
3481	13397	23202	3.83		1.6E-02 AW850652.1	EST_HUMAN	IL3-CT0219-160200-063-C07 CT0219 Homo saplens cDNA
	<u> </u>						Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG29, KIFC1, Fas-binding protein, BING1, tapasin, RalGDS-like, KE2, BING4, beta 1,3-galactosyl transferase, and
4084	13986		2.16		1.6E-02 AF110520.1	NT TA	RPS18 genes, complete cds; Sacm21 gene, partial>
4203	3 14102	23885	0.94	1.6E-02	_	EST_HUMAN	QV2-PT0012-140100-030-f07 PT0012 Homo sapiens cDNA
5456	<u></u>	L	1.31	1.6E-02	1715	NT L	Mus musculus CD5 antigen (Cd5), mRNA
6003	L		2.11	1.6E-02	1.6E-02 AB015281.1	NT	Candida albicans CaGCR3 gene, complete cds
8758	18637		4.01	1.6E-02	1.6E-02 X05151.1	NT	Human apoC-II gene for preproapolipoprotein C-II
7773	3 17623		2.71	1.6E-02	1.6E-02 AF079764.1	LN	Drosophila melanogaster enhancer of polycomb (E(Pc)) mRNA, complete cds
7954	l .	28044	1.47	1.6E-02	1.6E-02 AA572818.1	EST HUMAN	nf19g03.s1 NCL_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:914260 strailar to SW:TELO_RABIT P28294 TELOKIN. [1];
	l						Inf19g03.s1 NCI_CCAP_Pr1 Homo sapiens cDNA clone IMAGE:914260 similar to SW:TELO_RABIT
7954	_1				1.6E-02 AA572818.1	EST_HUMAN	P29294 IELOKIN. [1];
8280	19473				1.6E-02 Z94828.1	L.	G.gailus microsatelirle DNA (LEI0260 (=116iii=11))
8544						NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
8544	4 18416	28684			1.6E-02 AL161508.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 20
88	1 18615				8.1	EST_HUMAN	qz96e10.x1 Sceres_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:2042442.3'
9211	1 12089	21990	1.35			SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
9211	1 12089	21991	1.35		1.6E-02 Q64176	SWISSPROT	LIVER CARBOXYLESTERASE 22 PRECURSOR (EGASYN) (ESTERASE-22)
957	7 19165		2.3		1.6E-02 X92751.1	NT	R.narvegicus gene for choline acetyltransferase, exon 1 (non coding)
9973	3 19433		1.42		11417966 NT	IN	Homo sapiens SEC14 (S. cerevisíae)-like 2 (SEC14L2), mRNA
734	4 10666		24.9	1.5E-02	8923734 NT	Ŋ	Homo sapiens transcription factor (HSA130894), mRNA
2095	5 11984	21879	3.81		1.5E-02 N39521.1	EST_HUMAN	yv27b07.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243925 3'
2128	12016	21914	2.38		AL161594.2	NT	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 90
3023	3 12951		1.44		1.5E-02 AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48
3023	3 12951	22744	1.44		1.5E-02 AJ006216.1	NT	Homo sapiens CACNA1F gene, exons 1 to 48
					-		

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		T	T	T	T		T	T	T	T	T	T	Т	T	7	T	7	T	Ţ	Ţ	Т	7	T	_	T	T	Ţ	T	Ţ	T	Ţ	T	T
Single Exon Probes Expressed in Heart	Top Hit Descriptor	MR4-TN0115-080900-201-b12 TN0115 Home saniens cDNA	2440g10.r1 Stratagene hNT neuron (#837233) Homo saniens cDNA clone IMAGE:622225 Er	Homo sapiens TESTIN 2 and TESTIN 3 genes commissions alternativaly enlined	HYPOTHETICAL CALCIUM-BINDING PROTEIN C18R41 04 IN CHRONADSONIE!	Oyanophora paradoxa oyanelle, complete genome	Homo saplens KIAA1009 protein (KIAA1009), mRNA	Homo sapiens chromosome 21 segment HS21C103	Homo sapiens valvi-tRNA synthetase 2 (VARS2) mRNA	602019135F1 NCI CGAP Bri67 Homo saniens d'INA cione IMA CE: 44 EA EN	Saccharomyces cerevisiae chromosome VI plasmid GanC	yh54b10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMA CE-122821 F	Vh54b10.r1 Scares placenta Nb2HP Home sanions cDNA clane IMAGE: 432524 51	Plasmodium falcinarum (strain FCR2) veriant snootti ouricon suuri (strain FCR2) veriant snootti ouricon suuri	RC4 CN0049-140100-011-c11 CN0049 Home series and A	AU134730 PI ACET Homo samiens CDNA Acres DI ACEASSON #1	Chlamydobrilla pneumoniae AR39, section 58 of 64 of the complete comments	Homo sapiens NESH protein (LOC51225) mRNA	Haemobilius influenzae Rd section 115 of 163 of the complete concess	Xenopus laevis neurogenin related 1h (X-NGNR-4h) mRNA Ammilia	Homo sapiens headpin gene, complete cds	AV723785 HTB Homo sapiens cDNA clone HTBAHH11 5'	Bifidobacterium longum Na+/H+ antiporter (nhaB), cytosine deaminase, and alpha-galactosidase (anil.)	genes, complete cds; and N-acetylglucosamine/xylose repressor protein (nagCfxylR) gene, partial cds	xb09d09x1 NC_CGAP_GU1 Homo sapiens cDNA clone IMAGE:25757833	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 82	Arabidopsis thaliana DNA chromosome 4, conting franchert No. 82	Homo sapiens coagulation factor XII (Hageman factor) (F12) mRNA	Mus musculus histocompatibility 2, complement component factor B (H2 BS) mBNA	EST374761 MAGE resequences, MAGG Homo saniens cDNA	EST374761 MAGE resequences, MAGG Homo saniens cDNA	601567403F1 NIH MGC 21 Homo sapiens cDNA clone IMAGE:3842280 F	601567403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842280 5'
JIE EXON Prol	Top Hit Database Source	EST HUMAN	EST HUMAN	LN	SWISSPROT	LN LN	F	IN.	L'A	EST HUMAN	LN LN	EST HUMAN	EST HUMAN	L	EST HUMAN	EST HUMAN	Į.	 	Į.	TN	N	EST_HUMAN			T HUMAN	NT	N-	 	ヒラ		EST_HUMAN		\Box
Silio	Top Hit Acession No.	1.5E-02 BF092942.1		1.5E-02 AF260225.1		11467282		AL163303.2	11417739	1.5E-02 BF345554.1	1.5E-02 D44606.1				7.7	Γ	Γ	7705980	1.4E-02 U32800.1	1.4E-02 U67779.1	1.4E-02 AF216854.1	1.4E-02 AV723785.1		3.2	2.1	7		4503628 NT	6996918 NT		8.1	2.1	2
	Most Similar (Top) Hit BLAST E Value	1.5E-02	1.5E-02	1.5E-02	1.5E-02 Q09711	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.5E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02		1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02 BE733142
	Expression Signal	0.0	1.23	0.91	1.91	1.66	1.36	1.53	3.44	1.23	2.07	1,25	1.25	2.5	1.32	1.47	1.45	3.58	1.35	282	0.94	96.0		1.9	0.99	5.21	5.21	0.98	6.16	7.29	7.29	6.7	6.7
	ORF SEQ ID NO:	23365	23727	24048	25819		26399	26664	26668	27195	27545	27717	27718	28647				20860						C0877	23074	23161	23162	23197	23308	24062	24063	24445	24446
	Exen SEQ (D NO:	13577	13951	14263	15707				16480	17003	17339	17496	17498	18380	19559	19437	10357	11018	11143	11184	11280	11405	Š	13101	132/2	13356	13356	13392	13520	14283	14283	14659	14659
	Probe SEQ ID NO:	3663	4049	4367	5801	6332	6377	9629	999	7126	7520	7646	7646	8208	9429	0866	411	1102	1236	1276	1374	1501	1	97.00	3332	3439	3439	3476	3606	4387	4387	4775	4775

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Exon Most Similar SEQ in ORF SEQ Expression Most Similar (Top Hit Acession In ORF SEQ			т-		_	_	_	_	_	т-		-	_	_	_	_			-	_	_	_	_	_	_	_	-	_	_		<u>_</u>	
Exon ORF SEQ Expression (Top) Hit Top Hit Acess No. NO: Signal (Top) Hit Top Hit Acess No. 15768 25887 4.62 1.4E-02 AA559030.1 15768 25887 4.62 1.4E-02 AA559030.1 16512 27481 2.07 1.4E-02 AA559030.1 16512 27481 2.07 1.4E-02 AA559030.1 16512 27481 2.07 1.4E-02 AA559030.1 16775 27481 2.07 1.4E-02 AA559030.1 19102 2.2906 4.79 1.4E-02 AA559030.1 11718 2.2906 1.56 1.4E-02 AA559030.1 11807 2.1684 2.41 1.3E-02 BE732485.1 13102 22906 1.39 1.3E-02 AL163208.1 13799 1.36 1.3E-02 AL163208.1 14807 2.4854 1.3E-02 AL163208.1 15114 2.4855 1.3E-02 AL163208.1 15714 2.4857 1.3E-02 AL049866.2 15714 2.4857 1.3E-02 AL049866.2 15714 2.4857		Top Hit Descriptor	nl11c04.s1 NCI_CGAP_Br2 Homo sepiens cDNA clone IMAGE:1029990 3' similar to contains Alu repetitive element;	n111c04.s1 NCI_CGAP_B/2 Homo sapiens cDNA clone IMAGE:1028990 3' similar to contains Alu repetitive element;	Mycobacterium tuberculosis H37Rv complete genome; segment 88/162	601078239F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3464241 5	Human IFNAR gene for interferon alpha/beta receptor	Arabidopsis thaliana F21J9.2 mRNA, complete cds	Homo sapiens sperm associated antigen 7 (SPAG7), mRNA	601556462F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3826335 5'	Homo sapiens chromosome 21 segment HS21C001	602128475F1 NIH MGC 56 Homo saplens cDNA clone IMAGE:4286203 5'	602129475F1 NIH MGC 56 Homo sapiens cDNA clone IMAGE:4286203 5	Mus musculus beta-sarcoglycan gene, complete cds	Homo saplens chromosome 21 segment HS21C001	Mus musculus chromosome X contigB; X-linked lymphocyte regulated 5 gene, Zinc finger protein 275, Zinc finger protein 92, mmxq28orf	Mus musculus chromosome X condd8: X-linked lymphocyte requidated 5 near 7 7nc finant motern 275, 7nc	finger protein 92, mmxq28orf	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 46	ow06g05.x1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:16460723' similar to	contains Alu repetitive element;	Homo sapiens human endogenous retrovirus W gagC3.37 G gag (gag) gene, complete cds	Mouse kidney androgen-regulated protein (KAP) gene, complete cds	xx34e03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2815036 3'	xx34e03.x1 Source NFL T GBC 51 Homo sapiens cDNA clone IMAGE:28/5036.31	Yeast ABP1 gene for actin binding protein	Bacillus subbilis complete genome (section 14 of 21): from 2599451 to 2812870	Human herpesvirus 6B, complete genome	Homo saplens V1b vasopressin receptor (VPR3) gene, complete cds	Oryza sativa replication protein A1 (Os-RPA1) mRNA, complete cds	H.sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes
Exon ORF SEQ Expression (Top) Hit Top Hit Aces NO: Signal (Top) Hit Top Hit Aces NO: Signal (Top) Hit Top Hit Aces 15768 25887 4.62 1.4E-02 AA559030.1 16512 27481 2.07 1.4E-02 AA559030.1 19102 2.7886 4.62 1.4E-02 AA559030.1 19102 2.7890 4.79 1.4E-02 AA559030.1 11885 2.8790 4.79 1.4E-02 AA559030.1 11807 2.1684 2.41 1.3E-02 AF163208.1 13102 2.2906 1.39 1.3E-02 AF163208.1 11807 2.4854 1.3E-02 AL163201.2 15135 2.4854 1.3E-02 AL163201.2 15714 2.4857 1.3E-02 AL163208.1 16817 2.701 1.3E-02 AL049866.2 15714 2.4857	Si Lucy of		EST_HUMAN	EST HUMAN	NT	EST_HUMAN	Z	LZ LZ	N TN	EST_HUMAN	Z	EST HUMAN	EST HUMAN	N F	N	Į.		N	Z	F		EST HUMAN	L	TN	EST_HUMAN	EST_HUMAN	IN	LN TN	LN	TN	TN	ŇT
Exon ORF SEQ Expression (Total Picture) SEQ ID ID NO: Signal V 15768 25887 4.62 15768 25888 4.62 16612 27481 2.07 16612 27481 2.07 16612 27481 2.07 19102 27890 4.79 19102 22907 1.89 11718 2.41 1.55 11807 21684 2.41 13799 1.41 1.36 15135 24856 1.36 1514 24856 1.35 1514 24856 1.36 1514 24856 1.36 1514 24856 1.36 1514 24857 1.36 1514 24856 1.36 15237 22908 4.77 16817 27056 1.39 19705 2.92 1.83 19706 2.864 1.6		Top Hit Acession No.	4A559030.1	AA559030.1	AL022073.1		X60459.1	4F324985.1	11426968	3E739263.1			Ξ.	Σ	2			4L049866.2	4L.161548.2	1L161546.2		_	-	J63707.1	4W268563.1	1WZ68563.1	(51780.1	299117.1		VF152238.1	\F009179.1	(87344.1
Exon ORF SEQ Express SEQ ID NO: Signa NO: 15768 25887 15768 25887 15768 25888 16612 22906 13102 22906 13102 22907 11807 21684 15135 24855 15114 24855 15114 24855 15114 24855 15114 24855 15114 24855 15114 24855 15114 24855 15114 24855 15114 24857 15135 24856 15114 24857 15135 28485 19705 19694 19705		Most Similar (Top) Hit BLAST E Value	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1.4E-02	1,4E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02		1.3E-02	1.3E-02	1.3E-02		1.3E-02 /	1.3E-02/	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02	1.3E-02 /	1.3E-02	1.2E-02 X87344.1
Exon OR SEQ 1D ID		Expression Signal	4.62	4.62	1.82	2.07	4.79	1.55	1.89	0.86	2.41	1.89	1.99	1.41	1	1.36		1.36	1.35	1.35		4.77	1.74	1.87	4.39	4.39	2.92	1.6	1.8	28.64	1.32	0.94
σ											21684	22908			21684							26499		-	28484				-		24912	
Probe NO: 5862 5862 5862 5732 7408 9476 9475 6639 6639 66473 6639 66473 6639 66473 6639 66473 6639 6639 66473 6639 6639 6639 66473 6639 6639 6639 6639 6639 6639 6639 66		Exon SEQ ID NO:		15768	16612	17275	18885	19102	19277	11718	11807	13102	13102	13799	11807	15135		15135	15114	15114		16332	16817	17712	18237	18237	19705	19694	19170	19486	19744	10177
<u> </u>		Probe SEQ ID NO:	5862	5862	6732	7408	9126	9476	9753	1821	1912	3177	3177	3888	5176	5212		5212	6156	6156		9473	6636	7862	8360	8360	9102	9482	9286	9758	9949	206

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India Lyon I Tobas Lyprassan III Teal	Top Hit Descriptor	zf65g01.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:381840 5' similar to contains element L1 repetitive element;	HYPOTHETICAL 17.1 KD PROTEIN IN PURS 3'REGION	qd68e12.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1734670 3' similar to contains L1.t1 L1 repetitive element	Homo sapiens chromosome 21 segment HS21C013	1437e09-x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:265943231	6	601068406F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3454608 5	xi37e09.x1 Soares_NRT_GBC_S1 Homo sapiens cDNA clone IMAGE:2659432.3'	zm88e03.r1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:545020 5	y11b08.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:138903 31	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis [HI A-H] nene RoRei nene and sordium phosphate transporter (NET2) regions commissions and	Omos pyrrhodaster CoUbiaT mRNA, partial cds	AV731704 HTF Homo sapiens cDNA clone HTFBHG11 5'	Rana rugosa mRNA for caireticulin, complete cds	Mus musculus DNA methyltransferase (Dnmt1) gene, exons 2, 3, 4, and 5	AV732093 HTF Homo sapiens cDNA done HTFBJC09 5	CMP-N-ACETYLNEURAMINATE-BETA-GALACTOSAMIDE-ALPHA-2,3-SIALYLTRANSFERASE (BETA-GALACTOSIDE ALPHA-2,3-SIALYLTRANSFERASE) (ALPHA 2,3-ST) (GAL-NAC6S) (GAL-BETA-1,3-GALNAC-ALPHA-2,3-SIALYL TRANSFERASE) (ST3GAIA, 2) (SIATA-R)	Homo sapiens fringe protein mRNA, partial cds	Homo sapiens fringe protein mRNA, partial cds	yd72c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:1137743'	Norwalk-like virus genogroup 2 gene for capsid protein, complete cds	Homo sapiens Spast gene for spastin protein	PERIOD CIRCADIAN PROTEIN 1 (CIRCADIAN PACEMAKER PROTEIN RIGUI) (HPER)	COLLAGEN ALPHA 1(IV) CHAIN PRECURSOR	C18119 Human placenta cDNA (TFujiwara) Homo saplens cDNA clone GEN-557G06 5'	zm69e11.s1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE: 530924 3'	H.sapiens LIPA gene, exon 4	H. sapiens LIPA gene, exon 4
פופ באטוו רוט	Top Hit Database Source	EST_HUMAN	SWISSPROT	EST HUMAN	Į.	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	LV	L.	EST HUMAN	LN LN	LN LN	EST_HUMAN	SWISSPROT	Į.	۲	EST_HUMAN	F	Ε	SWISSPROT	SWISSPROT	EST_HUMAN	EST_HUMAN	NT	NT
	Top Hit Acesslan No.	1.2E-02 AA059299.1	P38898	Al183522.1		AW172350.1	BE538310.1	BE538310.1	AW172350.1	AA075418.1	R62805.1	U91328.1	1.2E-02 AB019786.1	1.2E-02 AV731704.1	078589.1	AF175412.1	1.2E-02 AV732093.1	211205	4F193612.1		176987.1	4B031013.1	4,1246003.1	215534	917139	C18119.1	1.1E-02 AA070364.1	C75491.1	(75491.1
	Most Similar (Top) Hit BLAST E Value	1.2E-02	1.2E-02 P38898	1.2E-02 Al183522	1.2E-02 AL16321	1.2E-02 AW1723	1.2E-02 BE53831	1.2E-02 BE53831	1.2E-02 AW1723	1.2E-02 AA07541	1.2E-02 R62805.1	1.2E-02 U91328.	1.2E-02	1.2E-02	1.2E-02 D78589.1	1.2E-02 AF17541	1.2E-02	1.2E-02 Q11205	1.2E-02 AF19361	1.2E-02 AF19361	1.2E-02 T76987.1	1.2E-02 AB03101	1.2E-02 AJ246003	1.2E-02 015534	1.2E-02 P17139	1.2E-02 C18119.1	1.1E-02/	1.1E-02 X75491.1	1.1E-02 X75491.1
	Expression Signal	1.74	1.48	2.98	1.99	1.23	1.1	1.1	1.27	6.18	1.89	204	1.73	2.12	1.96	5:33	6.37	2.11	1.22	1.22	1.17	2.45	1.23	1.78	1.5	3.47	1.32	1.99	1.99
	ORF SEQ ID NO:	20128	20210	20483		22167	52223		22167		22971	24495		24659	25497		26352	26742	26832	26833				25345			21004	21451	21452
	Exan SEQ ID NO:	10310	10389	10653	12018	12271	12325	12325	12271	12990	13173	14712	14849	14891	15434	16066	16190	16545	16644	16644	17029	17408	17426	18918	19575	19286	11155	11581	11581
	Probe SEQ ID NO:	352	445	721	2130	2393	2448	2448	2596	3063	3250	4830	4974	5017	5516	6180	6327	6665	6765	6765	7152	7557	7575	9177	9588	9766	1248	1679	1679

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Probe SEQ ID 8 NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1992	11886	81778	4.35		1.1E-02 BF345263.1	EST HUMAN	602018037F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4153808 5
2848	12776		3.53		1.1E-02 N99523.1	EST_HUMAN	za40e05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295040 5'
2933	12860	22660	10.39		1.1E-02 AF055068.1	TN	Homo sapiens MHC class 1 region
3478	13394	23200	2.46		1.1E-02 AI653508.1	EST_HUMAN	tq95b10.x1 NCI_CGAP_Ov23 Homo saplens cDNA clone IMAGE:2216539 3' similar to SW.XPF_HUMAN Q92889 DNA-REPAIR PROTEIN COMPLEMENTING XP-F CELL;
3937	13846		0.87	1.1E-02	1.1E-02 BE144637.1	EST_HUMAN	PM3-HT0175-300999-001-h06 HT0175 Homo sapiens cDNA
4016	13921		76.0		1.1E-02 AW813796.1	EST_HUMAN	RC3-ST0197-120200-015-g11 ST0197 Homo sapiens cDNA
4723	14609	24395	1.81		1.1E-02 AL048383.2	EST_HUMAN	DKFZp586E0924_s1 586 (synonym: hute1) Homo sapiens cDNA clone DKFZp586E0924
4821	14704		0.92		1.1	EST_HUMAN	QV2-ST0296-150200-028-c11 ST0296 Homo sapiens cDNA
6480	16339	26506	2.26		1.1E-02 BE149611.1	EST_HUMAN	RC1-HT0256-100300-016-h07 HT0256 Homo sapiens cDNA
7160	17037	27230			1.1E-02 Q61982	SWISSPROT	NEUROGENIC LOCUS NOTCH 3 PROTEIN
77.10	17560	27785	2.25		1 1E-02 AA082578 1	EST HIMAN	27724801 rt Stratagene neuroanithelium NT2RAMI 037234 Homo caniane c'DNA class IMACE-E49239 Et
7810	17660	27900			1.1E-02 AA314665.1	EST HUMAN	EST186494 Colon carcinoma (HCC) cell line II Homo saniens cDNA 5' end
8347	18224	28476	3.38	L	11435505 NT	LN	Homo saplens T-box 5 (TBX5), mRNA
							ab77f11.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:853005 3' similar to contains
9064	18845		2.23		1.1E-02 AA668239.1	EST HUMAN	Au repetitive element,
9	9992	19785			1.0E-02 AW846120.1	EST_HUMAN	MR3-CT0176-111099-003-e10 CT0176 Hamo sapiens cDNA
1506	11411	21270	0.91		1.0E-02 AW368128.1	EST_HUMAN	CM2-HT0177-041099-017-h12 HT0177 Homo sapiens cDNA
2525	12399		1.2		1.0E-02 AA806389.1	EST_HUMAN	oc22h08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1350495 3'
3051	12978	22771	7.37		1.0E-02 BE835556.1	EST_HUMAN	RC0-FN0025-250500-021-d02 FN0025 Homo sapiens cDNA
3226	13150	22950	1.18		1.0E-02 BE968999.1	EST_HUMAN	601649967R1 NIH_MGC_74 Homo sapiens cDNA clone IMAGE:3933689 3'
3464	13380		0.89		1.0E-02 AW845621.1	EST_HUMAN	MR0-CT0060-081099-003-h10 CT0060 Homo saplens cDNA
3805	13717	23505	62'0		1.0E-02 Al065086.1	EST_HUMAN	HA0921 Human fetal liver cDNA library Homo sapiens cDNA
4667	14553	24345		1.0E-02	- 6753521 NT	IN	Mus musculus corticotropin releasing hormone receptor 2 (Crhr2), mRNA
4736	14621	24407	2.38		1.0E-02 R96567.1	EST_HUMAN	yq54h01.r1 Soares fetal liver spleen 1NFLS Homo sepiens cDNA clone IMAGE:199633 5
4995	14870	24633	98.0		1.0E-02 AF218910.1	N.	Homo saplens attractin precursor (ATRN) gene, exon 25 and complete cds, alternatively spliced
5149	15016		0.82		1.0E-02 BE876539.1	EST_HUMAN	601486286F1 NIH_MGC_69 Hamo sapiens cDNA clane IMAGE:3888908 5'
5751	15659	25766	2.74		1.0E-02 AW577113.1	EST_HUMAN	MR4-BT0356-070100-201-h01 BT0356 Homo sapiens cDNA
5751	15659	25767	2.74		1.0E-02 AW577113.1	EST_HUMAN	MR4-BT0356-070100-201-h01 BT0356 Hamo sapiens cDNA
8054	16037		2.06		Z29642.1	NT	Z.mays U3snRNA pseudogene
7403	17270	27475			1.0E-02 BF036331.1	EST_HUMAN	601459570F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863177 5'
7403	17270	27476	4.65		1.0E-02 BF036331.1	EST_HUMAN	601459570F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863177 5'
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Mosť Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8586	18454		2.1		1.0E-02 AF157559.1	LN TA	Crithidia fasciculata 27 kDa guide RNA-binding protein mRNA, complete cds; mitochondrial gene for mitochondrial product
8674		28846	2.03		1.0E-02 AV760016.1	EST_HUMAN	AV760016 MDS Homo seplens cDNA clone MDSBDC10 5
9142	19762		1.7	1.0E-02 Q62203	Q62203	SWISSPROT	SPLICEOSOME ASSOCIATED PROTEIN 62 (SAP 62) (SPLICING FACTOR 3A SUBUNIT 2) (SF3A66)
9202	19535	25061	2.95		1.1	EST_HUMAN	RC2-D10007-120200-016-h02 DT0007 Homo septens cDNA
9217	19590		5.22		1.0E-02 S70330.1	N	Homo sapiens renal dipeptidase (RDP) gene, complete cds
9745	19645		2.44		1.0E-02 X62654.1	NT	H.sapiens gene for Me491/CD63 antigen
875	10801	20654	4.7		A1796128 1	EST HIMAN	wh42f09.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE;2383433 3' similar to contains element: MFR22 MFR22 repetitive element:
1243	乚		1.97		9.0E-03 BE781889.1	EST HUMAN	601470242F1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3873346 5'
2346	12226	22123	3.26		9.0E-03 AL 161559.2	M	Arabidopsis thaliana DNA chromosome 4, contig fragment No. 59
							Oncorhynchus nerka provital gypsy retrotransposon partial reverse transcriptase and protease genes (pol
2593	12463	22355	1.08		9.0E-03 AJ243727.1	NT	(auaß
0000						!	Oncorhynchus nerka proviral gypsy retrotransposon partial reverse transcriptase and protease genes (poi
2007	12403	22300	20.1	_	9.0E-03 A3243727.1	N I	gene)
7070	⅃	1	0.03		ALCO1744.1		Historias XI Society N.P. 1 GDC 31 Home Sapiens CDNA clone IMAGE:18542813
2876	╛		0.83		9.0E-03 AI251744.1	EST HUMAN	qh90f09.xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854281 3'
3617			0.92		9.0E-03 J05184.1	F	S.acidocaldarius themopsin gene, complete cds
4914		24568	1.17		9.0E-03 BE047949.1	EST_HUMAN	1244e10.y1 NCI_CGAP_Bm52 Hamo sapiens cDNA clone IMAGE:2291466 5'
5181			2.56		9.0E-03 AF137240.1	LN	Sargocentron sp. mixed lineage leukemia-like protein (MII) gene, partial cds
5997			4.17		9.0E-03 BE745988.1	EST_HUMAN	601573438F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834762 6'
6597	1		1.18		9.0E-03 AL039991.1	EST_HUMAN	DKFZp434L0412_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434L0412 5
7673	. [. 27749	1.47		P20908	SWISSPROT	COLLAGEN ALPHA 1(V) CHAIN PRECURSOR
8354			1.95			LN	Homo sapiens NF2 gene
9352	19763		1.34		9.0E-03 BF351141.1	EST_HUMAN	PM1-HT0452-291299-001-e09 HT0452 Homo sapiens cDNA
9557			11.59		9.0E-03 BE348385.1	EST_HUMAN	hw/7b09.x/ NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183161 3'
9562			1.27		9.0E-03 AF137240.1	NT	Sargocentron sp. mixed lineage leukemia-like protein (Mil) gene, partial cds
9649	19215	25259	1.52		9.0E-03 AL163267.2	NT	Homo saplens chromosome 21 segment HS21C067
9843	.19341		27.64		9.0E-03 BF351141.1	EST_HUMAN	PM1-HT0452-291299-001-e09 HT0452 Homo sapiens cDNA
							zh30e03.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:413596 3' similar to contains
493			3.2		<u>.</u>	EST_HUMAN	Alu repatitive element
973	_ {				1	NT	Homo saplens adenylosuccinate lyase gene, complete cds
2113	12002	21800	2.38		8.0E-03 AL163283.2	NT	Hamo sapiens chromosome 21 segment HS21C083

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		1	_	7	7	-	T :=						_		_	_	_	_			_		_		-	_				
Single Exon Probes Expressed in Heart	- Top Hit Descriptor	Escherichia coli microcin 24 region, DNA binding protein (mdbA), immunity protein (mtfl), microcin 24 (mtfS), and microcin transport protein (mftA mtfs), more protein (mtfl), microcin 24 (mtfS).	RC1-HT0545-120200-011-hoo HTn545 However and the Anna Anna Anna Anna Anna Anna Anna Ann	Homo sapiens SCI gene locate	Xenobus leevis bone morphogenetic protein 4 (BMP 4) anno completed.	CM4-NN0119-300600-223-b05 NN0119 Homo semiens cDNA	Mus musculus major histocompatibility complex region NG27, NG28, RPS28, NADH oxidoreductase, NG29, KIFC1, Fas-binding protein, BING1, tapasin, RaiGDS-like, KE2, BING4, beta 1,3-galactosyl transferase, and RPS18 genes complete color.	Proposelle harikachii 072 amani 2014 amang 172	PROBABILE DEPTINACE VANA	A californica (marine restrand maline)	Tursions truncatis mRNA for A/G. Ake Accepted gene (bag cell), excri 1, 5' end	MR1-ST0111-111199-011-bns ST0111 Home seeing seeing	0V1-BT0677-040400-134073 BT08777 Home sensions CUIVA	601475619F1 NIH MGC 68 Home canions apply 2011 11000 1	Scarevisiae chromosome X reading from 2 ODE V 1945	lod80a09 st NCI GGAP Ov Home services CNN 12K19ZW	IOGROSOS SI NCI CGAP OV Homo septems chiva cicie ilva Generalizacio	Hamb sapiens melanoma-associated anticas AAA CE. 13. 4232	Orycolegus cuniculus elF-2a kinase mRNA complete cds	Homo sapiens ABCG1 gene for ABC transporter (ATP-binding cassette, sub-family G (WHITE), member 1),	Cambencifilm sound US 40	Chatesparidium per van 10-10 gene, complete cds	Oppose the state of the state o	AV731712 HTF Home series con 1 Intra 2712	FORKHEAD BOX PROTEIN D3 (HNF3/FH TRANSCRIPTION FACTOR GENESIS) (HEPATOCYTE	NUCLEAR FACTOR 3 FORKHEAD HOMOLOG 2) (HFH-2)	ab79b09.s1 Stratagene fetal retina 937202 Homo sepiens cDNA clone IMAGE 853145 31	X/21b02.x1 Soares NFL T GBC 51 Homp septens CDNA rions IMAGE: 2843730.21	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR	UI-H-Bi3-akb-c-10-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733691.3/
gle Exon Pro	Top Hit Database Source	Į.	EST HUMAN	N	Ŋ	EST_HUMAN	TN TN	Į.	SWISSPROT	LN	LN	EST HUMAN	EST HUMAN	EST HUMAN	L	EST HUMAN	EST HUMAN	IN.	LN	LN	FZ	Į.	LN LN	EST HIMAN		SWISSPROT		EST_HUMAN	SWISSPROT	EST_HUMAN
ais	Top Hit Acession No.	8.0E-03 U47048.1	8.0E-03 BE171225.1	8.0E-03 AJ131016.1	8.0E-03 AF058764.1	8.0E-03 BF363327.1	8.0E-03 AF110520.1	8.0E-03 AP000002 1	P55577	M17197.1	8.0E-03 AB038267.1	8.0E-03 AW808692.1	8.0E-03 BE086509.1	8.0E-03 BE788441.1	249652.1	8.0E-03 AA828817.1	-			31.1	33.4	T	T	2.1				599.1		7.0E-03 AW44463.1
	Most Similar (Top) Hit BLAST E Value	8.0E-03	8.0E-03	8.0E-03	8.0E-03	8.0E-03	8.0E-03	8.0E-03	8.0E-03 P55577	8.0E-03 M17197	8.0E-03	8.0E-03	8.0E-03	8.0E-03	8.0E-03 Z49652	8.0E-03/	8.0E-03	8.0E-03	8.0E-03 M69035.	8.0E-03 AB0384	7.0E-03 /	7.0E-03	7.0E-03 AF24337	7.0E-03 AV73171	7 00 00	7.UE-US (20106)	7.0E-03 AA66829	7.0E-03 A	7.0E-03 P04929	7.0E-03 A
	Expression Signal	0.86	26'0	0.89	1.07	5.12	2.7	1.35	4.52	2.19	1.86	3.81	4.72	1.92	2.78	1.75	1.75	4.83	1.34	3.36	11.58	11.58	2.01	2.6	7	61:1	13.73	4.6	2.24	1.27
	ORF SEQ ID NO:			23039		23966	25164	25775		56298		27235		28284		28858	28859	29053			20433	20434	20732	20858		20440	21135	21251	22001	23400
	Exon SEQ ID NO:	12857	13191	13235	13704	14185	15310	19453		16143		17043	17567	18036	18230	18575	18575	18760	18852	18882	10612	10612	10884	11016	11247	44077	12/2	5	12715	13616
	Probe SEQ ID NO:	2930	3270	3314	3792	4286	5391	19/9	6048	6279	6453	7166	7117	8148	8353	8687	8687	8953	9075	9121	679	6/9	961	1100	38	4572	1486	9	223	3/02
																										-		_		_

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Single Exon Probes Expressed in Heart

	-3	87			434	43				T	٦	7				T		T	ains.	٦		Ţ.			
Top Hit Descriptor	Rettus norvegicus neuronal nicotinic acetylcholine recentor entranit / Alabado).	xe34f09.X1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2609033 3' similar to TR:Q12987 Q12987 ACIDIC 82 KDA PROTEIN	hh89a05 of NCI CGAP GITH Home emisses about a last of seconds at	Homo sapiens chromosome 21 segment HS21C07R	ho39h08.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:3039807.3' similar to TR:093434 093434 RETICULOCALBIN	ho39h08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3039807 3' similar to TR:O93434 093434 RFTICIII OCALRIN	RC1-CT0288-050400118-08 CT0288 Home conject chick	2d33f0.rf Soares fetal heart NhHH10M Long control of the control o	EST30674 Colon Homo sepiens cDNA 5' end	7g34b10.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3308347.3' similar to TR:Q13387	CM2-CT0478-2308nn-347-h11 CT0478 Home series - Data	S. Cerevisiae chromosome II reading frame ODE VBI A73	S. Gerevisiae chromosome II reading from ODE VDI A77	RCS-HT0582-46R300-014-Do2 HT0582 Home control of the control of th	BETA-GALACTOSIDASF PRECIRENCE IN ACTASEN	BETA-GALACTOSIDASE PRECURSOR (I ACTASE)	AV687379 GKC Homo sapiens cDNA clone GKCAECD7 F	Bos taurus mRNA for NDP52, complete cds	W15h01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:242833 3' similar to contains	601145154F2 NIH MGC 19 Hamp somition CDNA 1848 OF 2425	RC0-SN0052-110400-021-a04 SN0052 Home capiers ANA	hd22a05.x1 Soares_NFL_T_GBC_S1 Homo sapiens 201708 SW:PXR_HUMAN 075469 ORPHAN NI ICLE EAD DE CECOTA DAYS	hd22a05xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910224 3' similar to	Danio retin odorani recentor como chicato	pieno superiori di contra
Top Hit Database Source	N F		EST HUMAN	1	EST HUMAN O	EST HUMAN O	Т	Т	П		Т	Т		T HUMAN	Г	Г	EST HUMAN AN	NT	EST HIMAN AN	Т	Т	EST HUMAN SV	\Box	Т	
Top Hit Acession ' No.	7.0E-03 AF196344.1	7.0E-03 AW117711.1	8.1		7.0E-03 BE044191.1	7.0E-03 BE044191.1	2.		-	7.0E-03 BE857385.1				1.7			7.0E-03 AV687379.1	1		-	-	6.0E-03 AW511148.1	6.0E-03 AW511148 1		I
Most Similar (Top) Hit BLAST E Value	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03	7.0E-03 Z35838.1	7.0E-03 Z35838,1	7.0E-03	7.0E-03 P48982	7.0E-03 P48982	7.0E-03 /	7.0E-03 AB008852	7.0E-03 H94065.1	7.0E-03 BE263253.	7.0E-03	6.0E-03 A	6.0E-03 A	6.0E-03 AF112374.	200 200
Expression Signal	1.01	1.23	1.01	1.76	1.1	1.1	5.07	1.49	3.46		2.39	4.98	4.98	2.29	2.53	2.53	1.27	3.36	1.55	1.88	1.83	9.29	9.29	1.09	27.0
ORF SEQ ID NO:	23436	·····			24683	24684		25831	25967	26980	26127	26466	26467	26792	27670	27671		28337				20979	20980	22499	225R4
Exen SEQ ID NO:	13653	14329	14389	14795	14910	14910	19452	15718	15844	15859	15992	16302	16302	16603	17456	17456	17756	18086	19750	19194	19425	11129	11129	12606	12700
Probe SEQ ID NO:	3741	4434	4495	4916	6038	5038	5717	5813	5939	5954	6210	6441	6441	6723	7605	7605	986	8201	6096	9615	8962	1220	1220	2744	2862

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Table 4
Single Exon Probes Expressed in Heart

Single Exon Plopes Expressed in Heart	(Top) Hit Acession Top Hit Acession BLAST E No. Source Source Top Hit Descriptor Yalue	6.0E-03 H75690.1 EST_HUMAN yr77h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:211351 5'	6.0E-03 AF190338.1 NT Notoncus sp. cytochrome c oxidase subunit il gene, partial cds; mitochondrial gene (cr. mitochondrial product	Fugu rubripes zinc finger protein, isotocin, fatty acid binding protein, sepiapterin reductase and vasotocin genes, complete cds	LZ	1 EST HUMAN	1 EST HUMAN	П	AW847284.1 EST HUMAN	EST HUMAN	EST_HUMAN	Т	6.0E-03 AA324242.1 EST HUMAN EST27116 Cerebellum II Homo sapiens cDNA 5' end similar to EST containing Allu reneat	TN	EST HUMAN	TN	6.0E-03 Al033980.1 EST HUMAN contains MER10 bt MFR10 remeiting element.	7.1 EST HUMAN	1 EST HUMAN	Τ	6.0E-03 A1432681 1 FST HI MAN P40429 60S RIFOSOMAL PROTEIN 1.3 A	L	4.1 EST HUMAN	545814 NT	T HUMAN		Į.	T_HUMAN
oingie E.								6754029 NT	П		EST	_			EST	N	1	7.	_		•		-	545814	ļ	_		
		6.0E-03 H7	6.0E-03 AF	6.0E-03 US	6.0E-03 U9	6.0E-03 W:	6.0E-03 BF	6.0E-03	6.0E-03 AV	6.0E-03 BE	6.0E-03 N5	6.0E-03 AK	6.0E-03 AA	6.0E-03 AL	6.0E-03 AA	6.0E-03 AF	6.0E-03 AIC	6.0E-03 AM	6.0E-03 BF	6.0E-03 D1	6.0E-03 A14	6.0E-03 X6	6.0E-03 AW	6.0E-03	6.0E-03 A14	6.0E-03 AI4	6.0E-03 U1.	6.0E-03 BE
	Expression Signal	2.06	0.82	1.24	1.24	1.05	3.62	1.28	0.93	1.18	0.87	1.37	6.82	1.83	0.89	1.97	7.04	2.44	1.41	8.21	1.94	1.5	2.23	2.21	1.89	1.89	3.91	3.54
	ORF SEQ ID NO:			23062	23063		23311	23407	23551				24271	24758	24767	26542	26657	26724		27506		28039	28263		28356	28357		28479
	Exen SEQ ID NO:	13132	13187	13256	13256	13416	13524	13624	13757	13784	14129	14166	14485	14983	14996	16365	16466	16530	16569	17297	17626	17799	18015	18072	18102	18102	18227	18228
	Probe SEQ ID NO:	3208	3264	3336	3336	3489	3610	3711	3846	3873	4231	4267	4597	5115	5129	9209	6586	6650	6899	7509	7776	7949	8127	8186	8220	8220	8350	8351

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Exon ORF SEQ Expression (Top) Hit Top Hit Acession ID NO: Signal BLAST E No. Source	18922 1.59 6.0E-03 AF010496.1 NT Rhodobacter capsulatus strain SB1003, partial genome	3.6 6.0E-03 AE000833.1 NT	6.0E-03 AB025356.1 NT	F	6.0E-03 BE788019.1	2.1 NT	Ţ		. L	10589 20407 2.92 5.0E-03 L25105.1 NT like protein complete cris.	57.1 NT	EST HUMAN	22405 3.44 5.0E-03 AB033006.1 NT	22629 0.95 5.0E-03 BE266057.1 EST HUMAN	22820 4.08 5.0E-03 T87623.1 EST_HUMAN	1.75 5.0E-03 AL161491.2 NT	22853 1.04 5.0E-03 R71794.1 EST_HUMAN	1.08 5.0E-03/AJ297357.1 NT	23341 4.16 5.0E-03 AF147449.2 NT	23396 0.83 5.0E-03 U38914.1 NT	1.38 5.0E-03 AA299675.1 EST_HUMAN	23886 0.93 5.0E-03 H78355.1 EST HUMAN	23396 0.91 5.0E-03 U38914.1 NT	14396 24181 0.94 5.0E-03 AJ131016.1 NT Homo sapiens SCL gene locus	24296 2.49 5.0E-03 A1752367.1 EST HUMAN	
	18922	19519	19038	19583	19262	19274						11457														
	9185	9310	9372	9392	8722	9741	653	653	654	654	1096	1552	2648	2905	3097		3128			2078	3890			4503		5541

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	PROBABLE UBIQUITIN CARBOXYL-TERMINAL HYDROLASE FAF-Y (UBIQUITIN THIOLESTERASE FAF-Y) (UBIQUITIN-SPECIFIC PROCESSING PROTEASE FAF-Y) (UBIQUITIN-SPECIFIC BROTEIN SELATED, Y-LINKED) (UBIQUITIN-SPECIFIC PROTEASE 9, Y CHROMOSOME)	600944564T1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:29608713'	Mus musculus AMD1 gene for S-adenosylmethionine decarboxylase, complete cds	to sapiens MASL1 mRNA, complete cds	BETA-GALACTOSIDASE PREGURSOR (LACTASE)	Mouse complement receptor (CR2) mRNA, 3' end	694F Heart Homo sapiens cDNA clone 694	xn59g05.x1 Soares_NHCeC_cervical_tumor Homo sapiens cDNA clone IMAGE:2698040 3' similar to contains L1.t2 L1 repetitive element ;	xn69g05.x1 Soares_NHCeC_cerMcal_tumor Homo sapiens cDNA clone IMAGE:2698040 3' similar to contains 1.1 72 1 renetitive element	v009e04.11 Stratagene placenta (#937225) Homo saniens cDNA clone IMAGE:70686 FT	Mus musculus hyaothetical punitain MNOS-4760 (1 OC\$2010) mBNA	1246c04.VINCI CGAP Brn52 Homo seniens cDNA clone IMAGE-2204622 F	Gallus gallus glyceraldehyde-3-phosphate dehydrogenase mRNA complete cde	Brugia malayi Y chromosome marker	Human pro-alphat type II collagen (COL2A1) gene exons 1-54, complete cds	2X75a03.s1 Scares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:809548 3' stmiler to SW:DXA2_MOUSE P14685 PROBABI F DIPHENO! OXIDASE A2 COMBONENT.	602077774F1 NIH MGC 62 Homo saplens cDNA clone IMAGE:4252002 5	UI-H-Bi3-akf-f-08-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE-2734215 31	COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (I.C.COLLAGEN)	2574905.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:309368.3	UI-HF-BN0-akc-h-04-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076831 5'	yg51e04.s1 Soares infant brain 1NIB Home sabiens cDNA clone IMAGE 3598요 31	PHOSPHATIDYLINOSITOL 3-KINASE 3 (PI3-KINASE) (PTDINS-3-KINASE) (PI3K)	on75g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE-1562568 9	yg51e04.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:35088 3	RC3-BT0333-110100-012-f01 BT0333 Homo saplens cDNA	z181a08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:510998 5:	RC6-UM0014-170400-023-G01 UM0014 Homo sapiens cDNA
gie Exon Probes	Top Hit Database Source	PR FAI Y) (SWISSPROT CH	EST_HUMAN 600	T	NT	SWISSPROT BE	Γ	EST_HUMAN 694	EST_HUMAN con	EST HUMAN CON	Т		T HUMAN	Г		NT Hur	EST HUMAN SW	EST_HUMAN 602	Г	П	EST_HUMAN 257	EST_HUMAN UI-	EST_HUMAN yg5	SWISSPROT PHO	EST HUMAN ON7	Г	Г	HUMAN	EST_HUMAN RC
	Top Hit Acession No.	5.0E-03 000507	5.0E-03 BE300091.1	5.0E-03 AB025024.1	5.0E-03 AB016816.1	5.0E-03 P48982	5.0E-03 M61132.1	5.0E-03 T19586.1	5.0E-03 AW170334.1	5.0E-03 AW170334.1	5.0E-03 T49153.1	10946753 NT	5.0E-03 BE048055.1	5.0E-03 AF047874.1	5.0E-03 AF067253.1	5.0E-03 L10347.1	5.0E-03 AA456597.1	5.0E-03 BF572332.1	5.0E-03 AW 449109.1	Q02388	5.0E-03 AI668709.1	4.0E-03 AW 500196.1	4.0E-03 R46482.1	P54675	4.0E-03 AA939339.1	4.0E-03 R46482.1			4.0E-03 AW 794740.1
	Most Similar (Top) Hit BLAST E Value	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03 Q02388	5.0E-03	4.0E-03	4.0E-03	4.0E-03 P54675	4.0E-03	4.0E-03	4.0E-03	4.0E-03	4.0E-03
	Expression Signal	2.43	6.17	6.02	6.26	1.97	6.92	7.44	3.17	3.17	1.85	1.77	3.73	5.04	8.65	1.55	1.28	4.16	1.94	1.4	1.41	2.97	2.18	0.94	3	1.81	3.43	32.55	1.58
-	ORF SEQ ID NO:	25695		24877	26605	26865			28435	28436	28527	28563			<u> </u>				25197			20015	20097	20203	20333	20637		20889	20910
	Exan SEQ ID NO:	15594	15881	15101	16424	16673	16883	17993	18187	18187	18275	18307	18508	19709	18091	19153	19174	19529	19301	19601	19400	10201	10280	10380	10526	10785	10819	11047	11066
	Probe SEQ ID NO:	5685	5977	6091	6566	9794	7006	8103	8310	8310	8399	8433	8644	9327	9460	9555	9592	9616	9791	9808	9929	232	318	436	88	820	88	1133	1153

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₫ ₩ Z	Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	1281	11189	21040	1.33	4.0E-03	4.0E-03 AA284374.1	EST HUMAN	ZSSS901 r1 NCI CYSAP GCR1 Home conjune CDNA class 11/10 CF - CASE 21
	1568	11472		1.31	4.0E-03	4.0E-03 AV708305.1	EST HUMAN	AV708305 ADC Home sariens CDNA clone Antonogers and AV708305 ADC Home sariens cDNA clone Antonogers
	1709	11610	21480	22	4.0E-03	4.0E-03 U33472 1	<u> </u>	Rethie namediate hand autemated in the
Ш	1971	11864	21757	20.87	4.0E-03	17	EST HIMAN	Addans Indregrous type I asuccore and oractory-limbic associated protein AT1-46 mRNA, complete cds
	2200	12087		1.66	4.0E-03	9.1	EST HUMAN	6013n4161F1 NIH MGC 21 Dome control of the control
Ц	2232	12117	22019	1.46			EST HUMAN	RC6-UM0014-170400-023-G01 UM0014 Homo capiens - PNA
	2526	12400	22290	1.89	4.0E-03	4.0E-03 U52111.2	TN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein
	2526	12400	22291	8.	4.0E-03	4.0E-03 U52111.2	IN	Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM, models (CAMKI), creatine transporter (CRTR),
	2659	12526	22414	2.86	4.0E-03	-	LN	Homo sanions protein towning and enterent of 2000.
	2659	12528	22415	2.86	4.0E-03		L	Homo sapiens polyglutarini containing C140R14 gene
	2664	12530	22418	1.02	4.0E-03		LN LN	Homo sepiens chromosome 21 serment HS21 Cno.
	3487	13403	23207	0.94	4.0E-03		T HUMAN	X98704.XT NCT CGAP Cod8 Home scalene con Act of Concess St
	3487	13403	23208	96.0	4.0E-03		Т	x9804 x1 NCI CGAP Co18 Home emigns con A contract contrac
	3572	13486	23278	9.0	4.0E-03 Q13606		SWISSPROT	OLFACTORY RECEPTOR 514 (OLFACTORY BECEPTOR 11/17 PROTEINS
	3836	13486	23278	0.83	4.0E-03 Q13606		Т	OLFACTORY RECEPTOR 511 (OLFACTORY BECEPTOR 11/45 DESCRESSION OLF1)
	3852	13763	23556	0.85	4.0E-03	4.0E-03 AF060868.1		Mus musculus tumor susceptibility protein 101 (feed 40)
	3914	13823		1.79	4.0E-03		N	Homo sapiens TNNT1 gene, exons 1-11 (and loined CDS)
	4509	14402	24190	1.13	4.0E-03	4.0E-03 A 732754 1		ab18a08.x5 Stratagene lung (#937210) Homo saplens cDNA clone IMAGE:8411423' similar to contains Alu
	5164	15030	24796	13.17	4.0E-03 J02187.1		L	Four and mostly discovery drive according A 40 440.
	5225	15149	24916	1.66	4.0E-03/	1.6	Т	Drosophila melanogeter ann 307 (menanta) - 1848 Capsia protein VP3
	5315	15236	25039	19.53	4.0E-03/			Saftis novericis beta cateria brain- action and the complete cds
	5540	15457	25527	4.23	4.0E-03 P04196		ISSPROT	(HPRG)
	5542	15459	25529	1.5	4.0E-03 P21849		T.	WA.OR SURFACE LABELED TROPHOZOITE ANTIOFMENTED
	6704	15612		3.23	4.0E-03 U22180.1		Т	Refuls provenities one in data complete add
	5809	15714	25827	1.76	4.0E-03	-	Т	601076015F1 NIH MCC 12 Homo coming CDN - 1 MACC
_	6062	16045	26190	1.52	4.0E-03 U76408.1		NT-	Lycopersicon esculentim knotled 3 and in (TV-3) - Driv
	6271	16136	26291	4.14	4.0E-03 Q02817		Т	MUCIN 2 PRECURSOR (INTESTINAL MILLION 3)
	0880	16570	26762	3.61	4.0E-03 AF111944	44.1	7	Dictyostelium discoideum AX4 development protein DG1122 (DG1122)
								spa leng (27) 100 175 (20)

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Table 4
Single Exon Probes Expressed in Heart

	Top Hit Descriptor	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA	te49b11.x1 Soares_NFL_T_GBC_S1 Homo saptens cDNA clone IMAGE:2090013 3' similar to contains Alu repetitive element	Hamo sabiens chromosome 21 seament HS21Chno	Homo sabiens chromosome 21 segment MS24CA78	Homo sablens chromosome 21 segment 1921 0016	PM4-BN0138-180600-002-b08 BN0138 Homo centents CNV	601118164F1 NIH MGC 17 Home septens cDNA close IMAGE-3028065 F1	7q74c09.x1 NCI_CGAP_Lu24 Homo sepiens cDNA clone IMAGE: 3' similar to contains Alu repelitive element contains element MFR31 renelitive learnest.	hh02c07.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953932 3' similar to contains element	LIND repetuve element;	RC3-ST0281-240400-015-f03 ST0281 Homo sepiens cDNA	Homo saplens Grb2-associated binder 2 (KIĀA0571), mRNA	Homo sapiens protein kinase CK2 catalytic subunit alpha gene. excm 1	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1	nc73c05.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:782984 similar to contains Alu repetitive element:	Homo sabiens MHC class 1 region	S.cereale (cv. Halo) mRNA for triosenhashe isomerace	Mus musculus intestinal trefail factor gene, partial cols	Mus musculus Intestinal trefoil factor gene, partial cots	Arabidopsis thaliana rpoMt gene	601237982F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3600933 51	il.2-UM0076-240300-058-D03 UM0076 Hamo sapiens cDNA	Mus musculus alpha-1(XVIII) collagen (COL18A1) gene exon 1 and 2	C.elegans samdo gene	AV762392 MDS Homo sapiens cDNA clone MDSBSGn4 5'	AV762392 MDS Homo sapiens cDNA clone MDSRSG01 5	ah04(09.y5 Gessler Wilms tumor Homo caniens CDNA class INAACE: 44 EE 200 E1	S.cereale (cv. Halo) mRNA for triosephosphate isomerase	Raffus navegicus gdnf gene	xu8.P10.H3 conorm Homo sapiens cDNA 3'	DKFZp761B0712_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761B0712 5
	Top Hit Database Source			I L	Ţ		T HUMAN	Т	1		NAMOL	HUMAN		NT	N T	EST HUMAN ek	T	N LN	N	NT		EST_HUMAN 60	EST_HUMAN IL	П	NT C.	EST HUMAN AV	Г	EST HUMAN ah	Т	NT	EST_HUMAN xu	П
"	Top Hit Acession No.	7662067 NT	4.0E-03 AI553983.1	2					4.0E-03 BF224125.1	7			136955	1	3.0E-03 AF011920.1	1	L					.1	1.1			<u>.</u>	-					
	Most Similar (Top) Hit BLAST E Value	4.0E-03	4.0E-03	4.0E-03/	4.0E-03/	4.0E-03/	4.0E-03	4.0E-03	4.0E-03	4 015-013	3 10 10	4.0E-03 AW81914	4.0E-03	3.0E-03	3.0E-03	3.0E-03 AA468110.	3.0E-03 AF055066.	3.0E-03 Z32521.1	3.0E-03 U46858.1	3.0E-03 U46858.1	3.0E-03 Y09006.1	3.0E-03 BE379296	3.0E-03 AW802687	3.0E-03 U34606.1	3.0E-03 Y12500.1	3.0E-03 AV762392	3.0E-03 AV762392	3.0E-03 AI792278.1	3.0E-03 Z32521.1	3.0E-03 AJ011432	3.0E-03 AI536141.1	3.0E-03 AL119067.
	Expression Signal	2.02	7.4	4.41	3.38	5.64	3.95	2.25		1 57	200	, S	7.07	1.62	7.66	1.84	0.87	3.9	1.12	1.12	0.84	4.53	2.62	1.95	6.75	7.43	7.43	1.58	1,34	11.91	4.37	0.88
	ORF SEQ ID NO:	26841	27123		27229						+	05/50	00107	20146	20638	21401			22029	22030		22765	22833	23089		23591	23592	23632		23978	24096	24309
	Exon SEQ ID NO:	16653	16933	17028	17036	18345	19725	19009	19202	19640	1022R	10446	0110	10363	10787	11542	12097	12132	12133	12133	12890	12971	13037	13290	13297	13805	13805	13858	13980	14194	14311	14518
	Probe SEQ ID NO:	6774	7056	7151	7159	8472	9295	9317	9628	9996	0870	8050	300	ò	863	1638	2211	2248	2249	2249	2863	ğ 4	3112	3371	3379	88	3862	3920	4058	4296	4417	4630

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Table 4
Single Exon Probes Expressed in Heart

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Table 4
xon Probes Fyren

Single Exon Probes Expressed in Heart	Top Hit Descriptor		nomo sapiens gene for CMP-N-acetymeuraminic acid hydroxylase, partial cds	Rattus norvegicus mRNA for connexin36 (cx36 gene)	NING CANAL PROTEIN (KELCH PROTEIN)	KING CANAL PROTEIN (KELCH PROTEIN)	yd onus. r J Soares fetal iver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108341 5'	riuman alpha-2-plasmin inhibitor gene, exons 6 and 7	Homo seniers times related to the Seniers CDNA clone IMAGE:1217593	PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 (PETA-3) (GP27) (MEMBRANE GLYCOPROTEIN SFA-1) (CD151 ANTIGEN)	Homo sepiens procollagen-lysine, 2-oxoglutarate 5-dloxygenase (lysine hydroxylase, Ehlers-Danlos sundrome	Homo sapiens procellagen-lysine, 2-oxoglutarate 5-dioxydensiae (Natine hydronologae, FELL - D	3 VI) (PLOD) mRNA	COLLAGEN ALPHA 5(IV) CHAIN PRECURSOR	2x42a10.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE-780114.gr	Mus musculus myelin expression factor-3-like protein gene, partial cds	Homo sapiens chromosome 21 segment HS21C102	UI-H-H11-adt-g-10-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE-2717010 2	24-2210.71 Soares total fetus Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789114 5	H. sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOR DOR2 and BINGS 6.49	10 and 11 and 12 and 12 and 14 and 15 and 16	I values introduction mixing for SREB1, complete cds	ENV FOLTPROLEIN (CONTAINS: COAT PROTEIN GP52, COAT PROTEIN GP36)	ratura norvegicus 5-hydroxytryptamine7 receptor gene, partial cds	Drosoprilla melanogaster shortsighted class 2 (shs) mRNA, complete cds	Urosophila melanogaster shortsighted class 2 (shs) mRNA, complete cds Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene avone 7.40	ed	yorse02.s1 Soares adult brain N2b4HB65V Homo sapiens cDNA clone IMAGE-18ngan a	Carnelus dromedarius cyhp19 gene for Immunoglobulin heavy chain variable region	Fromo sapiens extracellular glycoprotein lacritin precursor, gene, complete cds.	capital control by the second of the second
gle Exon Probe	Top Hit Database Source			TOGGGGG	Т	SWISSPROT R	Т	T LI INAN	Т	ISSPROT				П	EST HUMAN Z		7 (1) (1)	T		NIVINIO	seueg LN	TOGODOT	20120					News			
Sin	Top Hit Acession No.	3.0E-03 AB009668 1	3.0E-03 A.1288282 4	7				51			4557836 NT		433/836	١				T			-		T					1	.].		
	Most Similar (Top) Hit BLAST E Value	3.0E-03	3.0E-03	2.0E-03 004652	2 0F-03 004652	2.0E-03	2.0E-03 M20783	2.0E-03	2.0E-03 AF28444	2.0E-03 P48509	2.0E-03	2 OE 02	2.0E-03	200	2.0E-03.PA450138	2.0E-03.6	2.0F-03.4	2 0F-03 A	2.0E-03 BF568955	2 0F-03 X87344 4	2.0E-03 AB040802	2.0E-03 P03374	2.0E-03 [J68491 1	20E-03 L42512 1	2.0E-03 42512 4	2 OE 03 A E999904	2.0E-03 R87773 4	2.0F-03 A.1245167	2.0E-03 AY005150	2.0E-03 AY005150	
	Expression Signal	1.35	233	0.89	0.89	7.01	1.93	1.59	126	1.11	1.91	197	4 94	138	2.17	2	4.62	4.03	1.02	4.87	0.92	2.15	9.77	1.93	1.93	760	1.7	0.82	1.04	1.04	
	ORF SEQ ID NO:		25296	20258	20259		21104	21106	21115	21243	21263	21264		21502	21731	21992		23088	23093	23315	23572	23703		24130	24131	24285		<u> </u>	24820	24821	
	Exan SEQ ID NO:	19668	19019	10446	10446		_ {		11259	11379	11404	11404	11477	11634	11845	12090	12409	13289	13294	13529	13780	13927	14027	14340	14340	14496	14500	14947	15057	15057	
	Probe SEQ ID NO:	9159	9339	504	504	768	1340	1343	1353	1474	1500	1500	1573	1733	1950	2203	2535	3370	3376	3615	3869	4024	4127	4446	4446	4608	4612	5077	5194	5194	

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Single Exon Probes Expressed in Heart

Onigra Ladir Flores Eaptressed III near	Top Hit Descriptor	601876385F1 NIH MGC 55 Homo sapiens cDNA clone IMAGE-4104602 F	Homo saplens mRNA for KIAA0693 protein partial cds	Xenopus laevis xefilin mRNA, complete cds	ATP-DEPENDENT NUCLEASE SUBUNIT B	ATP-DEPENDENT NUCLEASE SUBUNIT B	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECLIRSOR (CARD 21/CA BD 111/CA SI)	CARBONIC ANHYDRASE-RELATED PROTEIN 2 PRECURSOR (CARP 2) (CA.PD II) (CA.PD II)	601887434F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:4121408 S	ADAM-TS 7 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIES 7) (ADAMTS-7) (ADAM-TS7)	Lesculentum mRNA for lysyk/RNA competees (1 vz.Bc.)	the state of the case (Lyano)	wu36h09.x1 Soares_Dleckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522177 3' similar to SW:RI 29 HIMAN P47914 6ns PIPOSONAN DEOTERN I no contribution of the colon of the	CM4-BT0366-061299-054-d01 BT0366 Home saciens cDNA	hf37b08.xf Soares_NFI_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2934035 3' similar to TR:Q60978 Q60976 JERKY.	xx42g08.s1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:264442.3' similar to contains L1.b2 L1 repetitive element:	yx42g06.s1 Scares melanocyte 2NbHM Hαno sapiens cDNA clone IMAGE:264442.3' similar to contains L1.b2 L1 repetitive element:	TENASCIN PRECURSOR (TN) (HEXABRACHION) (CYTOTACTIN) (NEURONECTIN) (GMEM) (JI) (MIOTENDINOUS ANTIGEN) (GLIOMA-ASSOCIATED-EXTRACELLULAR MATRIX ANTIGEN) (GP 150-	225) (TENASCIN-C) (TN-C)	Aluman destrophin game	PROTEORY YOUTHINK DEOTEIN DEED JOSOB JOSEPH ACE THIS BECKEN II TO	RC3-B10333-3-10800-115-004 RT0-3-3-4 Home continue CNN	H. sapiens variable number tandem repeat (VNTR) Inc. is DNA	1965h03.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2283989 3' similar to SW:VATG_MANSE O25532 VACUOLAR ATP SYNTHASE SLIBI INIT G	Homo seplens SEL1L(SEL1L) gene, marrial cds	Camelus dromedarius cyhorig nene for imminizatyh ilin benna eksis maisti.	AV697968 GKC Homo sapiens cDNA clone GKCGXD05 5'
	Top Hit Acession Database No.	F241410.1 EST HUMAN	2.0E-03 AB014593.1 NT						F308187.1 EST_HUMAN	9UKP4 SWISSPROT			991089.1 EST HUMAN		2.0E-03 AW592004.1 EST_HUMAN				7			1.6		825745.1 EST HUMAN			
	Most Similar (Top) Hit BLAST E Value	2.0E-03 BF24141	2.0E-03 A	2.0E-03 U63711.	2.0E-03 P23477	2.0E-03 P23477	2.0E-03 Q95203	2.0E-03 Q95203	2.0E-03 BF308187.1	2.0E-03 Q9UKP4	2.0E-03 X94451.1		2.0E-03 Al991089	2.0E-03 BE067986.1	2.0E-03 A	2.0E-03 NZ0287.1	2.0E-03 N20287.1	200	2.0E-03 F-24821	2.0E-03 M86524	2.0E-03 P07354	2.0E-03 BF33090	2.0E-03 Z11740.1	2.0E-03 AI625745.1	2.0E-03 AF157516.2	2:0E-03 AJ245167.1	2.0E-03 AV69796
-	Expression Signal	1.37	1.76	1.87	3.25	3.25	1.82	1.82	7.14	22	1.95		1.36	2.88	2.11	5.19	5.19	ç	5.41	2.78	1.78	1.77	12.17	2.07	2.88	4.48	2.76
	ORF SEQ ID NO:	25128	25438		25725		25846	25847	25849	25874	25886			26129	26763	26853	26854	97509	41,000		26520		28936		29115		
	Exon SEQ ID NO:	15292	19445				15735		15737		15767		15884	15994	16571	16663	16663	47304	1.	L	16350	18642	18649	18835		14947	19703
	Probe SEQ ID NO:	6372	5457	5501	5716	5716	5829	5829	5831	5850	5861		5979	6212	6691	6784	6784	7513	7775	8379	8779	8829	8836	9052	9906	9113	9322

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Single Exon Probes Expressed in Local

Single Exon Probes Expressed in Heart	Top Hit Descriptor		h. sapiens M1 gene for muscarinic acet/Icholine receptor	Human DNA for CD38, exon 1	Indino saptens citromosome 21 segment HS210003 ta66f02.x1 Soares_total_fetus_Nb2HF8_9w Homo saptens cDNA clone IMAGE -2040064 or seed to the little of the l	contains Alu repetitive element,	Homo sapiens MSH55 gene, partial cds; and CLIC1, DDAH. G6b. G6c. G5h. G8d. G8c. C6f. DATF C.	CSKZB, BAT4, G4, App M, BAT3, BAT2, AIF-1, 1C7, LST-1, LTB, TNF, and I TA genes completed.	AV09/966 GKC Homo sapiens cDNA clone GKCGXD05 5	es70b08x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:232234 5 00.70008x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2334039 3' similar to TR-043955	as70b08x1 Barstead colon HPLRB7 Home sapiens cDNA clone IMAGE:-2334030 9: similar to transfer	Q13825 AU-BINDING PROTEIN/ENOYL-COA HYDRATASE.;	www.cocado.xi NCI CGAP Pan1 Homo sepiens cDNA clone IMAGE:2422258 3*	wxsosruxt NCI_CGAP_Met15 Homo saptens cDNA clone IMAGE:2551242 3' wd86e01xf NCI_CGAP_Lu24 Homo saptens cDNA clone IMAGE:2338440 3' streller to a control of the control of	repetitive element,	HIGH MOLECULAR WEIGHT FORM OF MYOSIN I (HIMWMI)	nomo sapiens SCL gene locus	CARBONIC ANN NORASE VI PRECURSOR (CARBONATE DEHYDRATASE VI) (CA-VI) (SECRETED	CARBONIC ANHYDRASE VI PRECURSOR (CARBONIC ANHYDRASE)	CARBONIC ANHYDRASE) (SALIVARY CARBONIC ANHYDRASE)	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	Human MUC2 gene, promoter region	Human MUC2 gene, promoter region	omo saplens SVMT gene for synaptic vesicle monoamine transporter exons 14.15	S.cerevisiae chromosome X reading frame ORF YJR149w	TCBAP1D4909 Pediatric pre-B cell acute lymbhoblestic leukemis Barder LCSC	Sapiens cDNA clone TCBAP4909	Cherron reports elegans spliced leader RNA (SL3 alpha), (SL4), and (SL5) genes
gle Exon Pro	Top Hit Detabase Source	TIV	IN A	- L	100	EST HUMAN		\top	HIMAN			FOT HIMAN	Т		CIALICOPPOT	Т		TOGGS		7	SSPROT				T HIMAN		ESI_HUMAN SE	7
Sin	Top Hit Acession No.	2.0E-03 Y0050R 4	D84276 4	2.0E-03 AL 163203 2	2.0E-03 AI375037 4	1.1000101	2.0F-03 AF1207E8 4	2.0E-03 AVR07066 4	1.0E-03 H96471.1	1.0E-03 AI720263.1		T				19						\prod	,	5 I	\	Ι,	-	
	Most Similar (Top) Hit BLAST E Value	20E-03	2 OF D3	2.05-03	2.0E-03		2.0F-03	2.0E-03	1.0E-03	1.0E-03	1 OF D3	1.0E-03	1.0E-03	1 0F.03	1.0E-03 P47808	1.0E-03	1.0E-03	1.0E-03 P18915	1.0F.03 P48045	10F-93	1 0F-03 / 1680e4 4	1.0E-03 CGG061.1	1 0F-03 AB044400	1 0F-03 740840 4	1.0E-03 BE939162	1 OF 03 DE240E26	1.0E-03 U29449.1	
	Expression Signal	1.59	6.62	2.92	1.57		127	1.68	1.38	2.38	2.38	2.14	1.44	1.45	3.61	8.02	1.15	2.26	2.26	1.16	0.79	0.79	1.24	1.02	3.54	3.77	0.87	
	ORF SEQ ID NO:	25278							20198	20587	20588	20836	20857	20906	21768	21896	22676	22879	22880	22984	23218	23219		23559	24013	24054	24244	
	Exen SEQ ID NO:	19066	19087	19134	19569		19247	19521	10377	10740	10740	10995	11015	11083	11875	11997	12878	13079	13079	13185	13413	13413	13528	13766	14231	14273	14456	
	Probe SEQ ID NO:	9414	9455	9525	9582		9696	9856	432	812	812	1079	1099	1150	1982	2108	2951	3154	3154	3262	3496	3496	3614	3855	4334	4377	4564	

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	\vdash		۲	Most Similar			
	Expression (Top) Hit Signal BLAST E	Most Similar (Top) Hit BLAST E Value		₽	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	1.78		1.0E-03 AI0	용		EST HUMAN	ov45c04.x1 Soares testis NHT Homo sabiens cDNA clone IMAGE-16403623
14603 24389 1.78 1.0E-03 AI073485.1	1.78		1.0E-03 AI07	A107		EST_HUMAN	ov45c04.x1 Soares testis NHT Homo sabiens cDNA clone IMAGE-1640262 3
	6.23		1.0E-03 BE1	8E1	7.1	EST_HUMAN	PM0-HT0339-200400-010-D02 HT0339 Homo sapiens cDNA
24649 16.98	16.98		1.0E-03 046	046		SWISSPROT	APOLIPOPROTEIN A-IV PRECURSOR (APO-AIV)
·14971 24747 0.93 1.0E-03 AV68587	0.93		1.0E-03 AV6	AVG	0.1	EST_HUMAN	AV685870 GKC Homo saplens cDNA clone GKCDMF11 5'
24946 2.03	2.03		1.0E-03 AA28	AA28	1.1	EST_HUMAN	zs44f01.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:700345 5'
25042 3.06	3.06		1.0E-03 AJ00	200	5.1	TN	Homo sapiens KVLQT1 gene
25096	2.01		1.0E-03 K033	(033		F	Epstein-Barr virus (AG876 isolate) U2-IR2 domain encoding nuclear protein FRMA2 complete ads
25097 2.01	2.01		1.0E-03 K033	(033	1	TN	Epstein-Barr virus (AG876 Isolate) U2-IR2 domain encoding nuclear protein ERNA2 complete cds
25397 1.69	1.69		1.0E-03 Q023	2023		SWISSPROT	COLLAGEN ALPHA 1(VII) CHAIN PRECURSOR (LONG-CHAIN COLLAGEN) (LOCOLLAGEN)
4.08			1.0E-03 X0769	X076		N	Mouse nuclealin gene
8.56			1.0E-03		11526176 NT	7	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1)
15730 25842 1.32 1.0E-03 T87761.1	1.32		1.0E-03 T8776	18776		EST HUMAN	yd93a11.r1 Soares fetal liver spleen 1NFLS Homo saniens china china iliange: 11£772 E
15763 1.4 1.0E-03 AW902585.1			1.0E-03 AW90;	1W90;		EST HUMAN	QV3-NN1024-260400-171-q05 NN1024 Homo saniens cDNA
16108 26259 2.4 1.0E-03 D16826.1	2.4		1.0E-03 D1682	21682		TN	Human gene for fourth somatostatin recentor surhhme
16281 1.0E-03 AJ229042			1.0E-03 AJ229(172290	.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21a22, segment 2/3
.							Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinase I (CAMKI), creating transporter /CDTD)
16362 26537 1.63 1.0E-03 U52111.2	1.83 24.5		1.0E-03 U52111	J52111		L	CDM protein (CDM), adrencieukodystrophy protein >
26707 5.35	5.35		1.0E-03 M0337	19546		NH	Human I RPM-2 protein gene, exons 1,2 and 3
	2.39		1.0E-03 AF153	(F153	_	LX	Homo saplens exostoses like protein 1 (FXTI 1) years
	1.4		1.0E-03 Y1120	1120		LN	V.carteri gene encoding volvoxopsin
27345 4.27	4.27		1.0E-03 M3047	/3047		TN	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cde
27346 4.27	4.27		1.0E-03 M304	1304		TN	Human class III alcohol dehydrogenase (ADH5) chi subunit mRNA, complete cds
27602 1.85	1.85		1.0E-03 AF011	F01		LN	Thermotoga neapolitana alpha-1,6-galactosidase (adlA) gene. complete cyls
27603 1.85	1.85		1.0E-03 AF01	F011		Π	Thermotoga neapolitana alpha-1,6-galactosidase (aglA) gane, complete cis
28196 22.37	22.37		1.0E-03 AW36	W36	Г	EST_HUMAN	RC1-CT0279-181089-011-a09 CT0279 Homo saniens cDNA
	22.37		1.0E-03 AW36	9E/M\	Γ	EST HUMAN	RC1-CT0279-181099-011-a09 CT0279 Homo saniens cDNA
18021 28268 2.44 1.0E-03 BE170859.1	2.44		1.0E-03 BE170	3E170			QV3-HT0543-220300-130-a03 HT0543 Homo sapiens cDNA
18083 2.69 1.0E-03 AlfsR3847 1			1.0E-03 A15R3	15.83		TOT IT INVOI	tt73e12.x1 NCI_CGAP_HSC3 Homo sapiens cDNA clone IMAGE:2246446 3' similar to TR:Q26195 Q26195
3.4			1.0E-03 AV7	\$		Т	AV759949 MDS Homo saniens CDNA clane MDSDDE44 F
18831 29113 2.82 1.0E-03 BE894488.1	2.82		1.0E-03 BE8	ığı	П	П	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'

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Single Exon Probes Expressed in Heart	Top Hit Descriptor		Raffus norvegicus transformation related protein 63 (Tmes)	to05h11x1 NC _CGAP_Co16 Homo sapiens cDNA clone MACE: 2002220 201	repetitive element;	601468878F1 NIH_MGC_67 Hamo sapiens cDNA clare MAACE 2027222 -	Human retinoblastoma susceptibility gene exons 1.27 completed.	APOLIPOPROTEIN A-IV PRECURSOR / APOLIPOPRE CAS	Glycynhiza glabra GgbAS1 mRNA for beta-amyrib sunthass	X. aevis mRNA for C4SR protein	y/1/2h/10.r1 Soares fetal liver spieen 1NFLS Homo sanions 2/1/11.	LINE-1 REVERSE TRANSCRIPTASE HOMOI OG	Homo saplens prion protein (PrP) gene, complete cds	#24c10.s1 Soares fetal heart NbHH19W Homo cardone and a	th85s08.x1 NCI_CGAP_U2 Homo sapiens cDNA clone IMAGE:377874 3'	Homo saplens CYP17 gene, 5 end	Homo sapiens prion protein (PrP) gene, complete cris	Homo sapiens chromosome 21 segment HS210010	Homo saplens chromosome X open reading frame 8 (OXOPER)	wg36f09.x1 Soares_NSF_F8_9W_OT_PA_F_31 Homo sepiens cDNA clone IMAGE-2367200 31	(L44L) and FTP3 (FTP3) genes over 14.	HSC28A072 normalized infant brain ANA U	CM1-BT0614-110300-142-b12 BT0614 Home continued to the co	9913c06.r1 Soares Infant brain 1NIB Home senions Child	Homo sapiens Retina derived POU-domain factor-1 (RDE-1) TONIA	Wifea11x1 NCL CGAP Kid12 Homo sapiens CINA clare 114. HIRNA	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene Righald.	Homo sapiens epsilon-1 pseudogene (IGHEP1) gene, o nativitie	Homo sapiens CCR8 chemokine receptor (CM/KRR) name	GLUCOSE TRANSPORTER TYPE 5, SMAIT INTESTINE CENTINE	DKFZp586M2024_r1 586 (synonym: hute1) Homo sanians CINA - Control Cont	RC2-BN0120-250400-012-h11 BN0120 Homo saplens cDNA	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosomes	U-H-Bl0-aab-e-09-0-Ul.s1 NCI_CGAP_Sub1 Homo sapiens cDNA clare MACE arrange	NOCLECSIDE DIPHOSPHATE KINASE B (NDK B) (NDP KINASE B) (NM23-M2) (P18)
igle Exon Pro	Top Hit Database Source		L	1.00	Т	HOMAN	٦	/ISSPROT		T	I	ISSPROT	П	╗	7					ESI HUMAN W	Į.	Γ		T HUMAN		EST HUMAN W	T		Ţ	П	T	HOMAN	T	SWISSDOOT NE	7
รัฐ	Top Hit Acession No.		9507208 NT	1.0E-03 A1347355 4	1 0E-03 RE780520 4	440404	006707	0.0E 04 AD0726	4B03/203.1	202004	209547				-	-		7.000	4685170	-					3003855		ŀ			,	7 ,				
	Most Similar (Top) Hit BLAST E Value	70.70	1.0E-03	1.0F-03	1 0F-03	9 0F-04 1 44040	9 OF 04 D06727	0.0E	8.0E-04 ABU37.20	8 0F-04 R02009	8 OF OA DOSEAN	8 0E-04 1204 0E	8 0F-04 AA7770	R OF OAN	7.0E-04 41825	7.0E-04 120485	7 0F-04 At 18324	7 OF OA	7.0E-04 Alzensa4		7.0E-04 U78027.1	7.0E-04 Z40561.1	7.0E-04 BE07794	7.0E-04 K1/336.1	6 0E-04 A1889E9E	6 0E-04 K0434E 4	6.0E-04 K04345 4	6.0F-04 (145083 4	B OF DAIDARANG	8.0E.04 At 040E03	6 OF -04 REPOSES	6.0F-04 A 1220042	6.0E-04 AW013847	6.0E-04 Q01768	
	Expression Signal	1 05	CE	2.15	4.2	0.81	1.56	142	1.39	1.27	4.2	239	2.08	2.16	1.61	1.13	3.28	1.03	2.24		3.2	2 30	27.0	3.28	1.34	0.85	0.85	3.28	4.35	3.13	2.24	2.07	6.32	2.45	
	ORF SEQ ID NO:	25287			24904	24769				23548		24332			21562	22127	22437	22965		_	28072		\dagger	-	23576	23680	23681	23769	-		27887	28881	28950		
	Exon SEQ ID NO:	19108	L		19707			17412	11377			14542	- 1	18483	11684	12230	12547	13166	15828	18683	18683	19155	19300	19321	137B8	13905	13905	13992	16470	17583	17650	18593	18664	18714	
	Probe SEQ ID NO:	9491		9517	9626	5131	5485	7561	1472	3843	4089	4656	8485	8816	1786	2350	7682	3243	5923	8851	1288	9558	9790	9813	3877	3999	3389	4092	9230	7733	7800		_[8906	

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Single Exon Probes Expressed in United

Probe Exm ORF SEQ Expression (Top) Hit Top Hit Aces NO: NO: 10 NO: Signal 12.56 6.0E-04 AW380519.1 99256 19588 19421 25170 1.39 6.0E-04 AW380519.1 9926 19421 25170 1.39 6.0E-04 AW380519.1 635 10572 20385 5.82 5.0E-04 AW380519.1 636 11390 20026 5.72 5.0E-04 AW380519.1 636 165801 20026 1.42 5.0E-04 AW548054.1 6386 165901 20026 5.72 5.0E-04 AR548054.1 6396 16519 26710 5.57 5.0E-04 AR150801.1 6396 16527 26387 1.45 5.0E-04 AR150801.1 6396 16519 26710 5.57 5.0E-04 AR150801.1 7345 17234 27606 4.66 5.0E-04 AR168091.1 8950 15281	Single Exon Probes Expressed in Hood	Aces	No. Database Top Hit Descriptor		EST_HUMAN	11418157 NT	SWISSPROT	4.1 EST HUMAN	1.1 EST HUMAN	ţ	INI	EST_HUMAN	LN.		EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN ·	!	IN.		1 EST HUMAN	EST_HUMAN	NT Haemophilus influenzae Rd section 63 2.20	FST HIMAN	NIMANO	EST HUMAN	EST_HUMAN	N∓	EST HUMAN		N	EST_HUMAN	TOTAL TANK	NYMOLO
Decoration Color	-,	Top Hit Aces	Ö		AW 3800		010341	AW851844.1		AF248054 4	AA156000 4	Managar.	MicSOU4.1	A 1400000	A 8 4 6 5 4 5 4	1W27000 4	1 049E07 0	7F048201.2	FORODEA	A 50074.1	M508513.1	1VV Z4 1006.1	F241482.1	32748.1	720263.1										1
10 SEQ ID ID NO: Sigma SEQ ID NO: SEQ		Most Simila (Top) Hit	Value					1	5.0E-04	5.0E-04	5.0E-04	FOF OA	1	70 E	50F-04/	5.0F.04	5 0F-04 A	1	5.0E-04/A	S OF OA	SOFOR	2000	4.0E-04 B	T.UE-04(C	4.0E-04 A		4.0E-04 A	4.0E-04 A	4.0E-04 AL	4.0E-04 AL	4.05-04	4.0E-04 AF	4.0C-04 AV	4.0E-04 AA	
10 SEQ ID		Expression	d D	2.26	1 49	5.82	1 83	4	44.	2.19	5.72	13.6		5.67	1.45	4.69	4.17		17.6	227	1.46	1 13	145		1.57	Č	3 00	1 80	100	0.70	1 80	200	5	2.75	
2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1										25113	26026	26387		26710	27412	27608	-		25113	_		_	20410		20606	20607	21218	21823		22348	22850	23041	-	23900	
9 2 3 3 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	-				- 1					_[-1	_1		16519	17213	17394	18220	ļ <u>.</u>	15281	19530	19413	10333	10592	_	10756	10756	11354	11928	11976	12457	13052	13237		14126	
		Probe SEQ ID	į	922	3658	935	1485	3367	5384	2000	958	6364		6839	7345	(343	8343		8950	9164	9944	386	657		828	823			L,				l.	- 1	

Page 139 of 413 Table 4 Single Exon Probes Expressed in Heart

lar It Top Hit Acession	Most Similar (Top) Hit Top Hit Acession BLAST E No.	Top Hit Acession No.	Top Hit Acession Date	Dat So	Top Hit Database Source	Top Hit Descriptor Source
			Value		aoinos	nh10a10.s1 NG CGAP Cot Homo seniens CDNA clone NAA CE-054020 01 :- 1
23901	- {	2.75	4.0E-04	4.0E-04 AA576331.1	EST_HUMAN	SPECIFIC RANTES PROTEIN PRECURSOR (HUMAN);
24121		1.28		4.0E-04 AA086324.1	EST_HUMAN	zn61c08.s1 Strategene muscle 937209 Homo sepiens cDNA clone IMAGE-562670.3
24661		3.72		4.0E-04 BE560660.1	EST_HUMAN	601345895F1 NIH_MGC_8 Homo sapiens cDNA clane IMAGE:3678910 5'
24770		6.0	4.0E-04	4.0E-04 N48313.1	EST HUMAN	yy78b10.s1 Soares_multiple_scierosis_2NbHMSP Homo sapiens cDNA clone IMAGE:279643 3' similar to contains Atu repetitive element
27040		1.62	4.0E-04	4.0E-04 N25507.1	EST HUMAN	yx39e12.r1 Soares melanocyte 2NhHM Homo saniens CINNA close IMA CE:254442 E
27655		2.79	4.0E-04	4.0E-04 A1025699.1	EST HUMAN	OWETHORS 1 Sources testits NHT Home sentions CONA clane (MAGE: 1844.4.2)
	_	1.44	4.0E-04	4.0E-04 AF022855.1	NT	Mus musculus neuronilln-2/a17) mRNA alternativalv collical complete collical
	\Box	1.52	4.0E-04		NT	Homo sapiens SIMARCA4 isoform (SIMARCA4) rene complete cds
	-	1.84	4.0E-04 Q05860	Q05860	SWISSPROT	FORMIN (LIMB DEFORMITY PROTEIN)
19942	7	3.04	3.0E-04	3.0E-04 AL119426.1	EST HUMAN	DKFZp761J221 r1 761 (synonym: hamy2) Home saniens cDNA clane DKEZ-754 1924 5
19977	-	2.22	3.0E-04 P49259		SWISSPROT	180 KD SECRETORY PHOSPHOLIPASE AZ RECEPTOR PRECLIBSON 101 A2 DA
20639	ᇷ	1.27	3.0E-04		IN	Human short chain acyl CoA dehydrodenasa gene, exons 1 and 2
	┥	1.16	3.0E-04	3.0E-04 Al399674.1	EST HUMAN	th 23a02 x1 NCI CGAP Prze Homo saniens cDNA clone IMACE - 211ans 22
22988	∞	3.37	3.0E-04 P25147	P25147	SWISSPROT	INTERNALIN B PRECURSOR
2358	亍	3.63	3.0E-04 P49448		SWISSPROT	GLUTAMATE DEHYDROGENASE 2 PRECURSOR (GDH)
	ᅱ	1.18	3.0E-04		TN	Homo sapiens Xg pseudoautosomal region: semment 1/2
	-	4.5	3.0E-04	3.0E-04 BE153778.1	EST HUMAN	PM0-HT0339-190200-007-012 HT0339 Home services CDNA
24456	g	0.85	3.0E-04		EST HUMAN	QV3-DT0045-221299-046-d09 DT0045 Homo saniens cDNA
	\dashv	1.34	3.0E-04	3.0E-04 Y11204.1	NT	V.carteri gene encodina volvozonsin
	+	4.82	3.0E-04	3.0E-04 AL163281.2	TN	Homo sapiens chromosome 21 segment HS21 Ch81
26166	စ္တ	6.88	3.0E-04	3.0E-04 AL163278.2	NT	Homo sapiens chromosome 21 segment HS21Cn78
288	된	3.49	3.0E-04 P22607		SWISSPROT	FIBROBLAST GROW TH FACTOR RECEPTOR 3 PRECURSOR (FORE) 31
27780	8	1.42	3.0E-04	3.0E-04 AA454055.1	EST_HUMAN	2x48d08.r1 Soares, testis, NHT Homo sapiens cDNA clone IMAGE:795471 5' similar to gb:M62762 VACUOLAR ATP SYNTHASE 16 KD PROTEOLIPID SURI INIT (HI IMAN).
28068	- 6	3.66	3.0E-04	3.0E-04 AA781201.1	EST_HUMAN	aj 24905.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391288 3' similar to gb:M36072.60S RIBOSOMAL PROTEIN L'A (HUMAN):
24008		000	2000	\ \ ,		nc38e04.r1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:1010430 similar to contains L1.t2 L1
250	٠,	5.33	3.05-04,		T HUMAN	repetitive element;
RODC7	ᆔ	4.32	3.0E-04,			Homo sapiens mRNA for KIAA0749 protein, partial cds
	4	2.01	3.0E-04,	3.0E-04 AL134483.1	EST_HUMAN	DKFZp547L185_r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKF7n5471 185 だ
19957		1.18	2.0E-04 /	2.0E-04 AF217796.1	INT	Homo sapiens SCG10 like-protein, helicase-like protein NHL, M68, and ADP-ribosylation factor related protein 1 (ARFRP1) genes, complete ade
	ĺ					

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Table 4
Single Exon Probes Expressed in Heart

Top Hit Descriptor	AU146707 HEMBB1 Homo sapiens cDNA clane HEMBB1001253 3'	Human dystrophin gene	Human dystrophin gene	qh98e11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1855052.3' similar to contains MFR3 b3 MER3 repetitive element	Homo saniens chrimosome 21 segment HS210002	Mus musculus 5' fanking region of Pit/3 gene	zu39b05.s1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:740337 3' similar to contains Alu repetitive element;	Human germline T-cell receptor beta chain TCRBV17S1A1T, TCRBV2S1, TCRBV10S1P, TCRBV28S1P, TCRBV19S1P, TCRBV19S1P, TCRBV19S1P, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV34S1, TCRBV3	omenant, Icharda International	OV2-RT0638-070500-194-bot RT0838 Home scaping about A Gione IMAGE: 1639/60 3	Human facilities (Massa TXK feet) gene assess 0 and 40	EST390550 MAGE resentences MACP Homo emigra CINIA	Phaseolus vulgaris nitrate reductase (PV/NR2) gene complete add	MOTe11.11 Soares pineal gland N3HPG Homo sepiens of DNA class INA CE 222 SEE ET	yu01e11.r1 Soares pineal gland N3HPG Homo sapiens cDNA clume IMACE-222200 5	Gallus gailus proteasome 28 kDa subunit homolog mRNA commissional	Danio rerio hagoromo gene, exons 1 to 6, partial cols	AV654352 GLC Homo sapiens cDNA clone GLCDUH10 3'	tq03b11x1 NCI_CGAP_Ut3 Homo sapiens cDNA clone IMAGE-2207709 3/	AU121712 MAMMA1 Homo saplens cDNA done MAMMA1000798 5'	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	MYOMESIN 2 (M-PROTEIN) (165 KD TITIN-ASSOCIATED PROTEIN) (165 KD CONNECTIN-ASSOCIATED PROTEIN)	Solanum Noopersicum phytochrome F (PHYF) gene natial calc	Solanum Noopersicum phytochrome F (PHYF) gene nertiel cde	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
Top Hit Database Source	EST_HUMAN A	L	I	FST HIMAN	1		EST HUMAN re		T LI MAN	Т	Т	T HUMAN	T	T HUMAN	Г	П		EST_HUMAN A	EST HUMAN to		SWISSPROT LI	SWISSPROT A	Π			NT CC
Top Hit Acession No.	2.0E-04 AU146707.1	2.0E-04 M86524.1	2.0E-04 M86524.1	2 0E-04 A(286021 1		2.0E-04 AF224268.1	2.0E-04 AA478980.1	O DE DATI IRANSA 4	2 0F-04 A1124529 1	2.0E-04 BE082317.1	2.0E-04 U34374.1	2.0E-04 AW978441.1	2.0E-04 U01029.1	H96265.1	2.0E-04 H96265.1	2.0E-04 U09226.1	2.0E-04 AB037997.1	2.0E-04 AV654352.1	2.0E-04 AI690862.1	2.0E-04 AU121712.1		P54296		2.0E-04 U32444.2		2.0E-04 AB026898.1
Most Similar (Top) Hit BLAST E Value	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	AO 710 C	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04	2.0E-04 P08548	2.0E-04 P54296	2.0E-04	2.0E-04	2.0E-04	2.0E-04
Expression Signal	2.15	4.49	4.49	4	1.99	1.44	1.29	415	-	2.53	0.98	0.78	4.61	1.27	1.27	1.31	1.7	1.83	1.68	2.5	11.07	1.6	1.33	1.33	1.19	1.19
ORF SEQ ID NO:			20664	•							23138	23541		24249	24250		24630	25371	25381			26527	26708	26709	26890	26891
Exon SEQ ID NO:			10815	11075	L	11689	12024	12402	12885	13307	13334	13748	13953	14461	14461	14575	14866	16322	15331	16155	16352	16356	16518	16518	16698	16698
Probe SEQ ID NO:	470	889	888	1162	1169	1791	. 2136	2528	2958	3389	3417	3837	4051	4569	4569	4689	4991	5403	<u>\$</u>	6291	6493	6497	9899	6638	6819	6819

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Table 4

Single Exon Probes Expressed in Used

Single Exon Probes Expressed in Heart	Hit base Top Hit Descriptor		7	7	7	7		\neg	7		\neg	7	7		Kaposi's sarcoma associated herpesvirus ORF 68 gene, partial cds; and ORF 69, kaposin, v-FLIP, v-cyclin, (LAMP) renes.	Kaposi's sarcoma-associated herpesyins OBF as	latent nuclear antigen, ORF K14, v-GPCR, putative phosphoribosyform/divinguishing the Anton	(LAMP) genes, complete ods	Equus caballus DNA, chromosome 24q14, microsatellite TKY36	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene complete ad-	\top	7	Т	Т		П		T	Homo sapiens KIAA0237 gene product (KIAA0237), mRNA
ıgle Exol	Top Hit Database Source		LN L	ES HOMAN	EST HUMAN	EST HUMAN	ž	EST_HUMAN	EST HUMAN		SWISSPROT	EST_HUMAN	EST_HUMAN		눌		F				IN I	TO LO	SWISSEDOT	100	EST HUMAN	_	EST HUMAN	SWISSPROT	
Sir	Top Hit Acess No.	2 OE 04 A FRANCES	2.0E-04 AF020503.1	2.0E-04 0E 149303.1	: ;	- 2		2.0E-04 AM49622.1	1.0E-04 H99646 1		7,77	1	1.0E-04 AW013847.1		1.0E-04 AF148805.1		1.0E-04 AF148805 1	T	T						_		27.1	7000045	NG10Z001
	Most Similar (Top) Hit BLAST E Value	0 30 6	2010	2000	207-02	2.0E-04	200	2010	1.0E-04	1000	1.0F.04	1 00 00	1 01 04	10.10	1.0E-04		1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04	1.0E-04 Q62203		1.0E-04	1.0E-04 M14042.1	4 OF 04 POST 4	10F04	E
	Expression Signal	2.20	1.46	171	6.14	1.88	5.57	294	0.98	2.43	3.87	3 87	297		3.24		3.24	1.67	1.29	1.29	1.15	1.15	1.04	,	1 78	80.1) RS	1.56	
	ORF SEQ ID NO:	27054	27801	27828	28360		28762	28866	20516	20819	20855	20856			21374	_	21375	21594	22363	22364	22411	22412	22969	23376	23654	23675	24043	24671	
	Exon SEQ ID NO:	16859	17579	17604	18107	18387	18490	18582	10680	10976	11014	11014	11216	-	11515		11515	11714	12469	12469	12522	12522	13170	13589	13878	13898	14258	14901	
	Probe SEQ ID NO:	6982	7729	7764	8225	8515	8625	8726	750	1059	1098	1098	1310		1610		1510	1817	2600	2600	2655	2655	3247	3675	3971	3991	4362	5028	

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Top Hit Acession	- -						
24672 1.56 1.0E-04 7652015 INT 24676 0.99 1.0E-04 Al357156.1 EST_HUMAN 25563 1.36 1.0E-04 Al257156.1 EST_HUMAN 25563 1.36 1.0E-04 Al251980.1 EST_HUMAN 26283 1.47 1.0E-04 Al251980.1 EST_HUMAN 27458 1.46 1.0E-04 Al263989 SWISSPROT 27628 1.76 1.0E-04 Al263816 INT 27628 1.76 1.0E-04 Al26386 INT 27629 1.81 1.0E-04 Al26386 INT 27670 1.86 1.0E-04 Al263833 INT 27670 2.83 9.0E-05 Al762082 INT 28676 1.85 9.0E-05 Al7120781		ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
24676 0.99 1.0E-04 Ai357156.1 EST_HUMAN 25563 1.36 1.0E-04 Ai251980.1 INT 25583 1.37 1.0E-04 Ai251980.1 EST_HUMAN 27456 2.53 1.0E-04 Ai251980.1 EST_HUMAN 27456 1.47 1.0E-04 Ai251980.1 EST_HUMAN 27628 1.75 1.0E-04 Ai251980.1 INT 20012 1.84 1.0E-04 Ai251988.1 INT 20439 1.75 1.0E-04 Aiv83325.1 EST_HUMAN 23678 0.8 9.0E-05 Ai718933.1 EST_HUMAN 23678 0.8 9.0E-05 Ai718933.1 EST_HUMAN 23678 0.8 9.0E-05 Ai718933.1 EST_HUMAN 23670 1.85 9.0E-05 Ai718933.1 EST_HUMAN 23670 1.85 9.0E-05 Ai718933.1 EST_HUMAN 26670	301	24672	1.56	1.0E-04	7662015	TN	Hamo sapiens KIAA0237 gene product (KIAA0237), mRNA
25563 1.36 1.0E-04 Z72560.1 NT 26283 1.2.77 1.0E-04 P08547 SWISSPROT 26283 1.4.47 1.0E-04 A1251980.1 EST HUMAN 27456 2.53 1.0E-04 A1251980.1 EST HUMAN 27456 1.46 1.0E-04 A1806220.1 EST HUMAN 27456 1.46 1.0E-04 A1806220.1 EST HUMAN 27628 1.46 1.0E-04 B08368.1 NT 29012 1.39 1.0E-04 B08368.1 NT 29012 1.84 1.0E-04 B08368.1 NT 23678 0.8 9.0E-05 A718933.1 EST HUMAN 25632 1.47 9.0E-05 A718933.1 EST HUMAN 25632 1.47 9.0E-05 A718933.1 EST HUMAN 25632 2.93 9.0E-05 A718933.1 EST HUMAN 25632 4.4 9.0E-05 A729768.1 NT 20576 1.46 8.0E-05 A729768.1 NT 20578 8.0E-05 A729768.1 NT 20579 1.16 8.0E-05 A729768.1 NT 20579 1.16 8.0E-05 A729768.1 NT 20579 1.16 8.0E-05 A729768.1 NT 20576 1.46 8.0E-05 A729768.1 NT 20576 1.46 8.0E-05 A729768.1 NT 20577 NT	905	24676	0.99	1.0E-04	2	EST_HUMAN	qx62h04.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:2005975.3
26283 1.36 1.0E-04 P08547 SWISSPROT 26283 12.77 1.0E-04 AI251980.1 EST_HUMAN 26283 14.47 1.0E-04 AI251980.1 EST_HUMAN 27456 2.53 1.0E-04 AI806220.1 EST_HUMAN 27628 1.75 1.0E-04 AI806220.1 EST_HUMAN 27628 1.75 1.0E-04 AI806220.1 EST_HUMAN 27628 1.75 1.0E-04 AI806220.1 EST_HUMAN 20439 1.0E-04 AI8053268.1 NT 20439 1.0E-04 AI8053268.1 NT 25632 1.47 9.0E-05 AA718933.1 EST_HUMAN 25632 1.47 9.0E-05 AA718933.1 EST_HUMAN 25632 1.47 9.0E-05 AI26768.1 NT 20576 1.85 9.0E-05 AI26768.1 NT 25632 4.4 9.0E-05 AI267646.1 NT 20576 1.46 8.0E-05 AI267641.1 NT 20576 1.46 8.0E-	015		6.0	1.0E-04		TN	S.cerevislae chromosome VII reading frame ORF YGL038c
26283 12.77 1.0E-04 AI251980.1 EST HUMAN 26283 14.47 1.0E-04 AI251980.1 EST HUMAN 27456 2.53 1.0E-04 AI806220.1 EST HUMAN 27628 1.46 1.0E-04 AI806220.1 EST HUMAN 27628 1.75 1.0E-04 AI806220.1 EST HUMAN 27628 1.75 1.0E-04 AI806387.1 NT 29012 1.9B 1.0E-04 AI80330.1 EST HUMAN 20012 1.9B 1.0E-04 AI803325.1 EST HUMAN 20013 1.0E-04 AIR883325.1 EST HUMAN 23678 0.8 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 AI702092.1 NT 26017 2.93 9.0E-05 AI702092.1 NT 25632 4.4 9.0E-05 AI702092.1 EST HUMAN 25632 4.4 9.0E-05 AI729758.1 EST HUMAN 25632 4.4	487	25563	1.36	1.0E-04	P08547	SWISSPROT	LINE-1. REVERSE TRANSCRIPTASE HOMOLOG
26283 14.47 1.0E-04 AI251980.1 EST HUMAN 27456 2.63 1.0E-04 AI806220.1 EST HUMAN 27758 1.46 1.0E-04 AI806220.1 EST HUMAN 27628 1.75 1.0E-04 AI8083876 NT SWISSPROT 2.17 1.0E-04 AI8083268.1 NT 2.17 1.0E-04 AI803268.1 NT 2.0439 1.0E-04 AI803268.1 NT 2.0439 1.7 9.0E-05 AA718933.1 EST HUMAN 2.5632 1.47 9.0E-05 AA718933.1 EST HUMAN 2.5632 1.47 9.0E-05 AA718933.1 EST HUMAN 2.8617 2.9 9.0E-05 AA718933.1 EST HUMAN 2.8678 0.8 9.0E-05 AV073078.1 EST HUMAN 2.8677 2.93 9.0E-05 AV073078.1 EST HUMAN 2.5632 4.4 9.0E-05 AV073078.1	129	26283	12.77	1.0E-04	5	EST_HUMAN	qv57d10.x1 NCI_CGAP_Ov32 Homo sapiens cDNA clone IMAGE:1985683 3/
27456 2.63 1.0E-04 Al806220.1 EST HUMAN 27458 1.46 1.0E-04 Al806220.1 SWISSPROT 27628 1.75 1.0E-04 Al803268.1 NT 20012 1.0B 1.0E-04 ARB03268.1 NT 20012 1.0B 1.0E-04 ARB03268.1 NT 20439 1.7 9.0E-04 AVW883325.1 EST HUMAN 25632 1.47 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 AA718933.1 EST HUMAN 28617 2.9 9.0E-05 AA718933.1 EST HUMAN 28670 2.9 9.0E-05 AA718933.1 EST HUMAN 28671 2.9 9.0E-05 AV073078.1 EST HUMAN 28672 1.85 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AV073078.1 EST HUMAN 2656	129	26283	14.47	1.0E-04		EST HUMAN	qv57d10.x1 NCI_CGAP_Ov32 Homo saplens cDNA clone IMAGE:1985683 3'
27456 1.46 1.0E-04 088969 SWISSPROT 27628 1.75 1.0E-04 10863876 NT 2.17 1.0E-04 P08547 SWISSPROT 2.17 1.0E-04 M28587.1 NT 2.012 1.0E-04 M28587.1 NT 1.84 1.0E-04 BE696769.1 EST_HUMAN 2.0439 1.7 9.0E-05 AA718933.1 EST_HUMAN 2.5632 1.47 9.0E-05 AA718933.1 EST_HUMAN 2.5632 1.47 9.0E-05 AA718933.1 EST_HUMAN 2.8617 2.93 9.0E-05 AA718933.1 EST_HUMAN 2.8627 1.85 9.0E-05 AR120782.1 EST_HUMAN 2.8632 4.4 9.0E-05 AR28781.1 EST_HUMAN 2.5632 4.4 9.0E-05 AR28781.1 EST_HUMAN 2.5632 4.4 9.0E-05 AR28781.1 NT 2.6632 4.4 9.0E-05 AR28786.1 NT 2.6	7249	27455	2.53	1.0E-04		EST_HUMAN	W28e08.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356742.3
27628 1.75 1.0E-04 P08547 SWISSPROT 2.17 1.0E-04 P08547 SWISSPROT 2.17 1.0E-04 M28587.1 NT 2.17 1.0E-04 M28587.1 NT 1.84 1.0E-04 BE696769.1 EST HUMAN 2.0439 1.0E-04 AV883325.1 EST HUMAN 2.5632 1.47 9.0E-05 A7762209.1 EST HUMAN 2.5632 1.47 9.0E-05 A7762209.1 EST HUMAN 2.8617 2.93 9.0E-05 A8718933.1 EST HUMAN 2.8670 1.85 9.0E-05 A8718933.1 EST HUMAN 2.8632 4.4 9.0E-05 AV073078.1 EST HUMAN 2.5632 4.4 9.0E-05 AV073078.1 EST HUMAN 2.5632 4.4 9.0E-05 AV073078.1 EST HUMAN 2.5632 4.4 9.0E-05 AV073078.1 INT 2.0576 1.46 8.0E-05 AV073078.1 NT 3.53 8.0E-05 AV129766.1 NT 0.78 8.0E-05 AV251646.1 NT 0.78 8.0E-05 AV32975.1 NT </td <td>7253</td> <td>27458</td> <td>1.46</td> <td>1.0E-04</td> <td></td> <td>SWISSPROT</td> <td>CYSTATIN-RELATED EPIDIDYMAL SPERMATOGENIC PROTEIN PRECURSOR (CYSTATIN 8)</td>	7253	27458	1.46	1.0E-04		SWISSPROT	CYSTATIN-RELATED EPIDIDYMAL SPERMATOGENIC PROTEIN PRECURSOR (CYSTATIN 8)
20012 1.0E-04 M28587.1 NT 29012 1.98 1.0E-04 M28587.1 NT 1.84 1.0E-04 BE696769.1 EST_HUMAN 20439 1.7 9.0E-05 AA718933.1 EST_HUMAN 25632 1.47 9.0E-05 A762209.1 EST_HUMAN 25632 1.47 9.0E-05 A76209.2 EST_HUMAN 25632 4.4 9.0E-05 A76206.1 NT 20576 1.85 9.0E-05 A762058.1 EST_HUMAN 25632 4.4 9.0E-05 A76206.1 NT 20576 1.86 9.0E-05 A76206.1 NT 20576 1.46 8.0E-05 A762066.1 NT 20576 1.46 8.0E-05 A762066.1 NT 20576 1.46 8.0E-05 A7621646.1 NT 20576 1.46 8.0E-05 A7621646.1 NT 20576 1.46 8.0E-05 A7621646.1 NT 20576 1.47 9.0E-05 A7621646.1 NT 20576 1.48 8.0E-05 A7621646.1 NT 20578 8.0E-05 A7621646.1 NT 20578 8.0E-05 A7621646.1 NT 20578 8.0E-05 A7621646.1 NT 20578 8.0E-05 A7621646.1 NT	7413	27628	1.75	1.0E-04	-	ĮN.	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
29012 1.0E-04 M28587.1 NT 29012 1.98 1.0E-04 AB032968.1 NT 1.84 1.0E-04 BE696769.1 EST HUMAN 20439 1.7 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 A6716209.1 EST HUMAN 25632 1.47 9.0E-05 A671600.1 NT 27470 2.93 9.0E-05 AF120982.1 NT 28617 2.6 9.0E-05 AF120982.1 NT 25632 4.4 9.0E-05 A60716 SWISSPROT 20576 1.46 8.0E-05 A6129756.1 NT 20576 1.46 8.0E-05 A729756.1 NT 20576 1.47 8.0E-05 A729756.1 NT 20576 1.48 8.0E-05 A729756.1 NT 20576 1.48 8.0E-05 A729756.1 NT 20576 1.48 8.0E-05 A72972.1 EST HUMAN 28630 1.87 8.0E-05 M89575.1 NT	7698		3	1.0E-04		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
29012 1.98 1.0E-04 AB032968.1 NT 1.84 1.0E-04 BE696769.1 EST HUMAN 20439 1.7 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 A6776209.1 EST HUMAN 25632 1.47 9.0E-05 A6776 SWISSPROT 27470 2.93 9.0E-05 AF120982.1 NT 28617 2.6 9.0E-05 AF120982.1 NT 28652 4.4 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AV073078.1 SWISSPROT 20576 1.46 8.0E-05 AF129756.1 NT 20576 1.47 8.0E-05 AF129756.1 NT 20576 1.48 8.0E-05 AF12975.1 NT 20576 1.48 8.0E-05 AF12975.1 NT	8513		2.17	1.0E-04		L	Mouse alpha leukocyte interferon gene, complete cds
23678 0.8 9.0E-05 AA718933.1 EST HUMAN 22672 1.7 9.0E-05 AA718933.1 EST HUMAN 25632 1.47 9.0E-05 A762209.1 EST HUMAN 25632 1.47 9.0E-05 G60716 SWISSPROT 27470 2.93 9.0E-05 A762209.1 EST HUMAN 22675 1.85 9.0E-05 A762209.1 EST HUMAN 25632 4.4 9.0E-05 A7620982.1 NT 25632 4.4 9.0E-05 A7620982.1 NT 25632 4.4 9.0E-05 A762098.1 EST HUMAN 25632 4.4 9.0E-05 A762066.1 NT 20576 1.46 8.0E-05 A762066.1 NT 20576 1.47 8.0E-05 A762066.1 NT 20576 1.48 8.0E-05 A762066.1 NT 20576 1.49 8.0E-05 A762066.1 NT 20576 1.40 8.0E-05 A762066.1 NT 20576 1.40 8.0E-05 A762066.1 NT	8721	29012	1.98	1.0E-04	3.1	TN	Homo sapiens mRNA for KIAA1142 protein, partial cds
23678 0.8 9.0E-05 AA718933.1 EST_HUMAN 25632 1.47 9.0E-05 A762209.1 EST_HUMAN 25632 1.47 9.0E-05 G60716 SWISSPROT 27470 2.93 9.0E-05 A762209.1 EST_HUMAN 28617 2.8 9.0E-05 A762209.1 EST_HUMAN 28632 1.47 9.0E-05 A762082.1 NT 28632 4.4 9.0E-05 A762082.1 NT 20576 1.85 9.0E-05 A762082.1 NT 20576 1.46 8.0E-05 A762066.1 NT 20576 1.47 8.0E-05 A762066.1 NT 20576 1.48 8.0E-05 A762066.1 NT 20576 1.48 8.0E-05 A762066.1 NT	8824		1.84	1.0E-04	Γ	EST HUMAN	CM0-CT0404-130700-475-h03 CT0404 Homo sapiens cDNA
23678 0.8 9.0E-05 AA718933.1 EST_HUMAN 25632 1.47 9.0E-05 AI762209.1 EST_HUMAN 25632 1.47 9.0E-05 G60716 SWISSPROT 27470 2.93 9.0E-05 AF120982.1 NT 28617 2.8 9.0E-05 AV073078.1 EST_HUMAN 25632 4.4 9.0E-05 AV073078.1 EST_HUMAN 25632 4.4 9.0E-05 AV073078.1 EST_HUMAN 25632 4.4 9.0E-05 AV073078.1 NT 20576 1.46 8.0E-05 AF129756.1 NT 20576 1.46 8.0E-05 AV073078.1 NT 20576 1.46 8.0E-05 AV073078.1 NT 20576 1.46 8.0E-05 AV073078.1 NT 20577 1.46 8.0E-05 AV073078.1 NT 20578 1.6 8.0E-05 AV073078.1 NT 20578 1.6 8.0E-05 AV073078.1 NT 20578 1.6 8.0E-05 AV073078.1 NT 20578 1.7 8.0E-05 AV073078.1 NT 20578 1.7 8.0E-05 AV073078.1 NT 20578 1.7 8.0E-05 AV073078.1 NT	9158		1.65	1.0E-04	5.1	EST_HUMAN	CM2-NN0010-220300-124-d08 NN0010 Homo sapiens cDNA
23678 0.8 9.0E-05 AI762209.1 EST HUMAN 25632 1.47 9.0E-05 Q60716 SWISSPROT 2.9 9.0E-05 D85606.1 NT 28617 2.6 9.0E-05 AF120982.1 NT 28705 1.85 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 AI287878.1 EST HUMAN 25632 4.4 9.0E-05 AI287878.1 EST HUMAN 25632 4.4 9.0E-05 AI287878.1 NT 20576 1.46 8.0E-05 AI28786.1 NT 20576 1.47 8.0E-05 AI28786.1 NT 20576 1.47 8.0E-05 AI28786.1 NT 20576 1.48 8.0E-05 AI28786.1 NT 20576 1.48 8.0E-05 AI28786.1 NT 20576 1.48 8.0E-05 AI28786.1 NT	3616	20439	1.7	9.0E-05		EST_HUMAN	ah45c11.s1 Soares_testis_NHT Homo saplens cDNA clone 1292468 3'
28632 1.47 9.0E-05 Q60716 SWISSPROT 2.9 9.0E-05 D85606.1 NT 28617 2.8 9.0E-05 AF120982.1 NT 28675 1.85 9.0E-05 AV073078.1 EST HUMAN 25632 4.4 9.0E-05 Q60716 SWISSPROT 20576 1.46 8.0E-05 AF129758.1 NT 20576 1.47 8.0E-05 AF129758.1 NT 20577 8.0E-05 AF129758.1 NT 20578 8.0E-05 AF129758.1 NT 20578 8.0E-05 AF12975.1 NT 20578 8.0E-05 AF12975.1 NT	3902	23678	0.8	9.0E-05		EST HUMAN	wi54c11.x1 NCI_CGAP_Co16 Home sapiens cDNA clone IMAGE:2384068.3' similar to contains MER6.t1 MER6 repetitive element :
28617 2.8 9.0E-05 AF120982.1 NT 28617 2.8 9.0E-05 AF120982.1 NT 28705 1.85 9.0E-05 AV073078.1 EST_HUMAN 25632 4.4 9.0E-05 A60716 SWISSPROT 20576 1.46 8.0E-05 A7129758.1 NT 20576 1.46 8.0E-05 A7129758.1 NT 20576 1.46 8.0E-05 A729758.1 NT 20576 1.46 8.0E-05 A729758.1 NT 20576 1.46 8.0E-05 A729758.1 NT 20577 1.46 8.0E-05 A729758.1 NT 20578 1.6 8.0E-05 A729758.1 NT 20578 1.6 8.0E-05 A729758.1 NT 20578 1.6 8.0E-05 A72972.1 EST_HUMAN 28630 1.87 8.0E-05 M69197.1 NT	5543	25632	1.47	9.0E-05		SWISSPROT	PROLYL 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
28617 2.6 9.0E-05 AF120982.1 NT 28705 1.85 9.0E-05 AW073078.1 EST_HUMAN 25632 4.4 9.0E-05 A[287878.1 EST_HUMAN 25632 4.4 9.0E-05 A[287878.1 EST_HUMAN 25632 4.4 9.0E-05 A[287878.1 EST_HUMAN 20576 1.46 8.0E-05 A[28786.1 NT 20576 1.46 8.0E-05 A[287646.1 NT 3.53 8.0E-05 A[287646.1 NT 0.78 8.0E-05 A[28772.1 EST_HUMAN 28630 1.87 8.0E-05 A[28772.1 EST_HUMAN	7264		2.9	9.0E-05		ĮN.	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
28705 1.85 9.0E-05 AW073078.1 EST_HUMAN 25632 4.4 9.0E-05 Q60716 SWISSPROT 4.17 9.0E-05 AF129756.1 NT 20576 1.46 8.0E-05 AF129756.1 NT 3.53 8.0E-05 AF12975.1 NT 0.78 8.0E-05 AF12975.1 NT 0.78 8.0E-05 AF12975.1 NT 1.15 8.0E-05 AF12977.1 NT	7266	27470	2.93	9.0E-05	2.1	NT	Homo saplens methyl-CpG binding protein 1 (MBD1) gene, exon 15b
28705 1.85 9.0E-05 AI287878.1 EST_HUMAN 25632 4.4 9.0E-05 Q60716 SWISSPROT 4.17 9.0E-05 AF129756.1 NT 20576 1.46 8.0E-05 AJ251646.1 NT 3.53 8.0E-05 AJ251646.1 NT 0.78 8.0E-05 AB375.1 NT 0.78 8.0E-05 AB375.1 NT 28630 1.87 8.0E-05 AB377.1 NT	8352	28617	2.6	9.0E-05,	8.1	EST_HUMAN	xa34g05.x1 NCI_CGAP_Br18 Homo saplens cDNA clone IMAGE:2568728 3' stmilar to contains L1.t2 L1 repetitive element;
25632 4.4 9.0E-05 Q60716 SWISSPROT 4.17 9.0E-05 AF129758.1 NT 20576 1.46 8.0E-05 AJ251646.1 NT 3.53 8.0E-05 AJ251646.1 NT 0.78 8.0E-05 M83575.1 NT 1.16 8.0E-05 M83575.1 NT 28630 1.87 8.0E-05 M89377.1 NT	8436	28705	1.85	9.0E-05	-	EST HUMAN	qv23f06.x1 NCI_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1982435 3' similar to contains element MIR repetitive element :
4.17 9.0E-05 AF129756.1 NT 20576 1.46 8.0E-05 AJ251646.1 NT 3.53 8.0E-05 AJ251646.1 NT 0.78 8.0E-05 M83575.1 NT 1.16 8.0E-05 F28172.1 EST_HUMAN 28630 1.87 8.0E-05 M69197.1 NT	5543	25632	4.4	9.0E-05		SWISSPROT	PROLY, 4-HYDROXYLASE ALPHA-2 SUBUNIT PRECURSOR
20576 1.46 8.0E-05 AJ251646.1 NT 3.53 8.0E-05 AJ251646.1 NT 0.78 8.0E-05 M83575.1 NT 1.16 8.0E-05 F28172.1 EST_HUMAN 28630 1.87 8.0E-05 M69197.1 NT	8008		4.17	9.0E-05/		<u> </u>	Homo septens MSH55 gene, partial cds; and CLIC1, DDAH, G6b, G6c, G5b, G6d, G8e, G6f, BAT5, G5b, CSK2B, BAT4, G4, Ano M, BAT3, BAT2, AIF-1, 1C7, 1ST-1, 1TR, TNF, 2001, 11A, 2001, 10
3.53 8.0E-05 AJ251646.1 NT 0.78 8.0E-05 M83575.1 NT 1.16 8.0E-05 F28172.1 EST_HUMAN 28630 1.87 8.0E-05 M69197.1 NT	0733	20576	1.46	8.0E-05/		L	Pisum sativum mRNA for beta-1.3 ducanasa (nns2 nena)
0.78 8.0E-05 M83575.1 NT 1.16 8.0E-05 F28172.1 EST_HUMAN 28630 1.87 8.0E-05 M69197.1 NT	0773		3.53	8.0E-05/		Į.	Pisum sativum mRNA for beta-1.3 alucanase (ans? gene)
1.16 8.0E-05 F28172.1 EST HUMAN 28630 1.87 8.0E-05 M69197.1 NT	2847		0.78	8.0E-05			Human platelet-derived growth factor A chain (PDGFA) gene exons only
28630 1.87 8.0E-05 M69197.1 NT	5080		1.15	8.0E-05		Т	HSPD16734 HM3 Homo saplens cDNA clone s3000003H04
	3364	28630	1.87	8.0E-05		П	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete ads

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart		zs88h01.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:704593 3' similar to contains Alu	PC3 CT0000 20000 644 Ext CT000 1	RC3-C10206-220399-011-E04-C10208 Homo sapiens cONA	HUM072014F Himan fewer - INA Home capiens cDNA	HUM072014F Human foves color Homo saniens color Est HFD072014	PROBABLE GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR	Hamosaniers chramasome 2/ normant 1100,0000	Dichastellim discolderm ages for TDEA	Hamo sepiens chromosome 21 soument Local Con.	Caenorhaddiis electors Skoth homolog ment 1.2.1.000	Rat cytomegalovirus Maastricht complete cos	EST78713 Placenta I Homo canions only	EST04984 Fetal brain Stratagene (retables2506) Uman contraction of the	Homo sapiens sarcoglycan, epsilon (SGCE) mRNA	Homo sapiens chromosome X enem reading frems & (PXODES) - DAM	Homo sapiens chromosome X open reading frame 6 (CXORFs) mRNA	W654h06 X1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE_2309531 3' similar to gb.J03250 DNA	H. Saniens flow-sorted chromosome & Uti-Jili 6	H Saplens flow-sorted chromosome 6 Hindlii frammat 505-4 2004	Homo sapiens monocyte/neutrophil elastase inhibitor mana annulus and	CONTACTIN PRECURSOR (GI YOODBOTEIN OD426)	CONTACTIN PRECIESOR (GLYCOPROTEIN CP135)	W50a11 rt Spares fatal liver mileon 4NEI S 11.	Programmen 346212 5	CAB-BINDING PROTEIN PRECIOSOD (A25)	CAB-BINDING PROTEIN PRECIDENCE (ABB)	ye28c12.r1 Stratagene Iuna (#637210) Homo saniens CNM - Iomo 1444 CE-440000 FI	Vi59d08.s1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:143535 3' similar to contains Alu	rependive element; contains LTR7 repetitive element;	Avoiva. I Società pregnant utenus NbHPU Homo sapiens cDNA clone (MAGE:487035 5' MRO-NT0038-250400-001-409 NT0038 Homo carriens CDNA
gie Exon Pro	Top Hit Database Source	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	TOBASSIMS	LN	L	N-I	LN PL	F F	EST HUMAN	EST HUMAN		Į.	TN	EST HIMAN	L	NT.	LN LN	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	SWISSPROT	SWISSPROT	EST_HUMAN	FOT LINAN	EST CLIMAN	EST HUMAN
	Top Hit Acession No.	AA279333 1	AW8474451	445.1				78.2			Π	9845300	7.0E-05 AA387612.1	Γ	10835046 NT	4885170 NT	4885170 NT	1.1	-		6.0E-05 AF053830.1				29.1			-		5.1	10.1
	Most Similar (Top) Hit BLAST E Value	8.0E-05 AA2793	7.0E-05 AW847	7.0E-05 AW847	7.0E-05 L49075.1	7.0E-05 L49075	7.0E-05 022949	7.0E-05	7.0E-05	7.0E-05/	7.0E-05 U60980	7.0E-05	7.0E-05/	7.0E-05 T07095	7.0E-05	6.0E-05	6.0E-05	6.0E-05 A 65524	6.0E-05 Z84506	6.0E-05 Z84506.	6.0E-05	6.0E-05 Q12860	6.0E-05 Q12860	6.0E-05 N72829	6.0E-05 A	6.0E-05 P08607	6.0E-05 P08607	6.0E-05 T94149.	6.0F-05 R75630	6.0E-05 AA04401	6.0E-05 AW8901
	Expression Signal	3.45	2.9	2.9	1.05	1.05	2.32	5.24	5.78	1.27	0.82	0.84	1.12	3.04	2.89	1.57	1.57	1.42	0.89	0.89	2.45	3.33	3.33	1.49	2.61	1.37	1.37	1.28	3.68	3.69	8.44
	ORF SEQ ID NO:		20118				20800			23953	24023	24506		27505		21766	21767	22309	22409	22410	20415	25599	25600	25879	26989	27437	27438	27558	28267	28911	25073
	Exon SEQ ID NO:	19589	10303	10303	10496	10496	10957		13046	14175	14241	14723		ı	18374	11874	11874	12418	12519	12519	10598	15519	15519	15761	16796	17234	17234	17354	18019	18621	19587
	Probe SEQ ID NO:	9911	344	344	555	555	1039	2686	3121	4276	4344	4842	5202	7508	8501	1981	1981	2544	2652	2652	2783	2002	2002	6855	8918	7330	233	7484	8131	8807	9534

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Single Exon Probes Expressed in Heart

		Т	T	Т	Т	Т	Т	_	Т	Т	Т	Т	$\overline{}$	\neg	<u> </u>	_	$\overline{}$	_	\neg	_	_	_	7	Т	_	_		7		_	_	_
	Top Hit Descriptor	7g28a08.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3307766.3	QV4-ST0234-241199-040-h11 ST0234 Homo sarriens cDNA	Homo sapiens 22kDa peroxisomal membrane protein-like (1 OC55895) mRNA	Homo sapiens MEP1A gene, promoter region and exon 1	Homo sapiens partial SLC2243 gene for extraneuronal monoamine transporter (EMT) and 4	Human MLC1emb gene for embryonic myosin alkaline light chain 31/17R	AV653544 GLC Homo sapiens cDNA clone GLCDMA06 3'	RETINAL-BINDING PROTEIN (RALBP)	RETINAL-BINDING PROTEIN (RALBP)	Human renin (REN) gene, 5' flanking region	Homo sapiens PP1200 mRNA, complete cds	hi38c07xf Sogres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2974380 3' similar to contains element MiR repetitive element	xd93e09.x1 Soares NFL T GBC St Home saniens CONA clame IMAGE: Sanietop of	qh64c10.x1 Soares_fetal_liver_spleen_1NRLS_S1 Homo sapiens CDNA done IMAGE:1849458 3' similar to	XV24003.X1 Soares NET GRC S1 Home canient ANN April 1440 Co. 204 4440.91	601461463F1 NIH MGC 66 Homo saniens cDNA clope IMA GE-3868443 F1	601461463F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE-386543 F	SKELEMIN	PM1-HT0521-120200-001-e10 HT0521 Homo sapiens cDNA	PM1-HT0521-120200-001-e10 HT0521 Hamo saciens cDNA	EST79996 Placenta I Homo sapiens cDNA similar to similar to p53-associated protein	EST79996 Placenta I Homo sapiens cDNA similar to similar to p53-associated protein	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	qh64c10.x1 Soures_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849458 3' similar to	contains Alu repetitive element contains element KER repetitive element ;	Mile mineral distributions of abstraction of the second of	601567451F1 NIH MGC 21 Home series and Alama International Programme (Myckel), mRNA	ZS60b05.s1 Strategies schizo hain S11 Home saniers chiNA clare INA CE-2044 9.	hi94e08x1 NCI CGAP Lu24 Home septiens cDNA clans INACE annesses a	Homo saplens interleukin-1 receptor aniagonist homolog 1 (ii 1HY41) mRNA	EST8475 Colon adenocarcinoma IV Homo sapiens cDNA 5 end
OI I I IOVI OIGII	Top Hit Detabase Source	EST HUMAN	EST HUMAN	TN	LN L	LN L	LN	EST_HUMAN	SWISSPROT	SWISSPROT	N	LN	EST HUMAN	EST HUMAN	FST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	SWISSPROT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	NT	100	EST HIMAN	LV.	EST HIMAN	EST HUMAN	EST HUMAN	NT.	T_HUMAN
	Top Hit Acession No.	6.0E-05 BE858403.1	5.0E-05 AW392086.1	B923891 NT	5.0E-05 AJ251058.1	5.0E-05 AJ251884.1	5.0E-05 X58855.1	5.0E-05 AV653544.1	P49193	P49193	4.0E-05 U12821.1	4.0E-05 AF202635.1	4.0E-05 AW627946.1	4.0E-05/AW117580.1	3.0E-05(A1248061 1		3.0E-05 BF037898.1	<u>~</u>			3.0E-05 BE169211.1			3.0E-05 AF149773.1			2102	<u> </u>	2	2.1	912431	3.0E-05 AA372562.1
	Most Similar (Top) Hit BLAST E Value	6.0E-05	5.0E-05	5.0E-05	5.0E-05	5.0E-05	5.0E-05	5.0E-05	5.0E-05 P49193	5.0E-05 P49193	4.0E-05	4.0E-05	4.0E-05	4.0E-05	3.0E-05	3.0E-05	3.0E-05	3.0E-05	3.0E-05 Q62234	3.0E-05	3.0E-05	3.0E-05	3.0E-05	3.0E-05	2 OF OF A 1248064	3.0F-05	3.0E-05	3.0E-05 BE73315/	3.0E-05/	3.0E-05 AW77098	3.0E-05	3.0E-05/
	Expression Signal	1.54	14.37	1.63	0.88	2.99	9.01	3.46	2.96	3.47	4.58	7.17	4.6	2.17	0.84	1.36	1.28	1.28	0.91	6.89	68.9	1.19	1.19	0.85	8	78.0	1.54	223	1.62	1.65	1.5	1.33
	ORF SEQ ID NO:		21141			23593		25652					28286		20417	20804	20870	20871	22442	23964	23965	24045	24046	24197	20417	24786	25382	28677	26935	27225	27228	27447
	Exon SEQ ID NO:		11287	11716	12760	13807		15559	19173	19173	10193	17356	18038	18989	10599	10961	11030	11030	12553	14184	14184	14261	14261	14412	10500	15018	15332	16491	16742	17031	17035	17242
	Probe SEQ ID NO:	3965	1382	1819	2831	3897	5392	5646	9326	9590	2776	7486	8150	9287	999	1043	1115	1115	2688	4285	4285	4365	4365	4519	4731	5151	5412	6611	සෙය	7154	7158	7373

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Single Exon Probes Expressed in Heart	Top Hit Descriptor Top Hit Descriptor	EST HIMAN WASERDO & Secret No ALL TO	T^{-}	EST HUMAN MER3.b2 MER3 repetitive element;		丁	EST HUMAN RC3-BT0319-120200-014-h08 BT0319 Homo sapiens cDNA	Homo sepiens p47-phox (NCF1) gene, complete cds	It sapiens DNA for endogenous retroviral like element	Screenisiae 12.8 Kbp fragment of the left arm of chromosome XV		丁	EST HUMAN 601236455F1 NIH MGC_44 Homp septens cDNA clone IMAGE:3608653 57	riomo sapiens SCL gene locus	Т	TOWNSHIP INVOICES INCIPERATION SEPTEMBERS ADMA GLORE INVOICE 1238610 21	Т	ES I_HUMAN Wu35h07.x1 Soares_Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2522077 3*	Heterodontus francisci Hox410 (Hox410), Hox49 (Hox49), Hox47 (Hox47), Hox46 (Hox48) Hox46	(HoxA1), HoxA4), HoxA3 (HoxA2), HoxA2 (HoxA2), and HoxA1 (HoxA1) genes, complete cds	Heterodontus francisci HoxA10 (HoxA10), HoxA9 (HoxA7 (HoxA7) HoxA6 (HoxA8)	T		UMAN ww91a06.r1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259570 5		Г	Т	
ingle E		EST		2 2						IN L	3			Z Z	FOL	2 1	2 2	3	본		Ę	EST HUMAN		ESI_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN
S	Top Hit Acession	3.0E-05 AI769331.1	2 0F-05 A1286024 4	2.0E-05 M13792.1	2 OF OF A 4 4 80 E82 4	2 0F-05 REDERING 4	2.0E-05 AF184814	2.0F-05 X80244 4	2 0F-05 X05465 4	2.0E-05 AL039107 1	2 OF-05 A1283340 4	2 0F-05 BE378474 4	2.0E-05 A.1134046 4	2.0E-05 A 10117121	2.0E-05 AA714330 4	2.0E-05 V08928 4	2.0F-05 Atabanos 4	1000	2.0E-05 AF224262.1		20E-05 AF224262 1	2.0E-05 Al381040.1	NAA76A A	1.10714	N41751.1	2.0E-05 Al991025.1	2.0E-05 BE175801.1	2.0E-05 BE348229.1
	Most Similar (Top) Hit BLAST E Value	3.0E-(2 OF 2	2.0E-0	9 7 7 7	20F.0	20E-0	20F-0	20F-0	2.0E-0	2 OF-0	2 PP 5	2.0E-0	2.0E-0	2.0E-0	2.0E-06	20F-05		2.0E-05		2.0E-05	2.0E-05	2 OF OF NA47EA	20-20-2	2.0E-05 N41751	2.0E-05	2.0E-05	2.0E-05
	Expression Signal	3.15	1.76	3.02	7.21	1,5	0.94	1.14	-	0.85	000	1.06	0.84	1.42	2.19	2.19	8.04		2.21		2.21	2.3	2.45		2.45	2.42	2.93	2.98
	ORF SEQ ID NO:		22058	22302		22821	23027	23050			24191		24453	25502	26022	26108			26260		26261	28671	28116	20447		-	28141	\dashv
	SEQ ID NO:	17421	12160	12412	12546	13025	13225	13243	13366	13649	14403	14480	14666	15438	15898	15972	15983		16109		16109	16483	17874	17R74	15083	17007	1801	19514
	Probe SEQ ID NO:	7570	2276	2538	2681	3098	3304	3323	3449	3737	4510	4592	4782	5520	5993	6125	6136		6243		1	6603	8024	8024	1	1	ì	9335
																									1	1		

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Single Exon Probes Expressed in Heart

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Cingo Evolutioned Expressed III Tear	Top Hit Descriptor	xa89a03.x1 NCL_CGAP_Co17 Homo sapiens cDNA clone IMAGE:2573932.3' similar to contains L1.b3.L1 repetitive element:	Homo sapiens ABCA1 (ABCA1) gene, complete cds	AU131513 NT2RP3 Homo sapiens cDNA clone NT2RP3002707 5'	Homo saplens chromosome 21 segment HS21C082	Drosophila melanogaster strain Lamto 120 Suppressor of Hairless (Su(H)) gene, partial cds	MOSAIC PROTEIN LGN	Homo sapiens chromosome 21 segment HS21C003	zw69g04.r1 Soares testis NHT Homo saplens cDNA clone IMAGE:784494 5'	xy49g11.x1 NCI_CGAP_Lu34.1 Homo sapiens cDNA clone IMAGE:2856548 31	Homo sapiens chromosome 21 segment HS210046	Homo sapiens Spast gene for spastIn protein	ns19g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1184114 3' similar to contains L1.t1 L1	Li repetitive element; Home caniens physical Agranta V (DI AGGAA) DAIA	From Separate production and a figure of the control of mixty, and translated products	52 KU RU PRU I EIN (SJUGREN SYNDROME TYPE A ANTIGEN (SS-A)) (RO(SS-A))	name squares critomosome zi segment HSZ1C0Z/	zxvontz.st soares_tota_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:788519 3' similar to gb:L02932 PEROXISOME PROLIFERATOR ACTIVATED RECEPTOR ALPHA (HUMAN):	2s05e11.1 NCI_CGAP_GCB1 Homo sapiens cDNA clone INAGE:684332 5' similar to contains Alu , repetitive element contains element TAR1 repetitive element.	UI-H-BI2-agk-a-08-0-UI.s1 NCI CGAP Sub4 Homo saniens cDNA clone IMAGE:272/2018 91	UI-H-BI2-agk-a-08-0-UI.s1 NCI CGAP Sub4 Homo sapiens cDNA clone IMAGE-2724398 31	ha07c10.x1 NCI_CGAP_Kid12 Homo saplens cDNA clone IMAGE:2873010 3' similar to contains L1.t2 L1 repetitive element;	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete ods	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene. RoRet gene. and socilium phosphafe fransmyrter (NDT3) rene.	#73a06.x1 NOI_CGAP_HSC3 Hano septens cDNA clone IMAGE-2246386.3	qg11b08.x1 Soares_placenta_8tc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1759191 3'
21 21 21 21 21 21 21 21 21 21 21 21 21 2	Top Hit Database Source	EST HUMAN	NT	EST_HUMAN	TN	TN	SWISSPROT	N _T	EST HUMAN	EST_HUMAN	Z L	LZ LZ	TOT	NA HOMAN	TOGGGGWG	SWISSPROI	-	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	LN	L	EST_HUMAN	EST_HUMAN
5	Top Hit Acession No.	2.0E-05 AW074604.1	2.0E-05 AF275948.1	2.0E-05 AU131513.1	1.0E-05 AL163282.2	1.0E-05 AF088273.1	P81274	1.0E-05 AL163203.2	1.0E-05 AA431119.1	1.0E-05 AW419134.1	1.0E-05 AL 163246.2	1.0E-05 AJ246003.1	4 OE OE A 644846 4	A404 104	1	1.0E-05 F184/4		1.0E-05 AA452578.1	1.0E-05 AA236110.1	1.0E-05 AW291521.1	1.0E-05 AW291521.1	1.0E-05 AW466995.1	1.0E-05 U91328.1	1.0E-05 U91328.1	9.0E-06 AI583811.1	9.0E-06 AI218983.1
	Most Similar (Top) Hit BLAST E Value	2.0E-05	2.0E-05	2.0E-05	1.0E-05	1.0E-05	1.0E-05 P81274	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	4 00 05	1.0F-05	4 OF OR DAOA	1.00 t	20-70-1	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	1.0E-05	9.0E-06	9.0E-06
	Expression Signal	3.73	2.25	1.81	1.61	1.67	9.24	1.09	2.01	2.15	4.46	1.42	2 5.4	6.45	7	2.18		2.48	11.8	1.2	1.2	1.78	2.2	22	6.59	3.66
	ORF SEQ ID NO:			25257							'	26082	26428					27312	27420	27778			28414	28415	22398	22775
	Exen SEQ ID NO:	12961	19503	19208					14080	14627	- 1	15952	15003	1	ı		ı	17117	17220	17554	17654	17701	18170	18170	12504	12984
	Probe SEQ ID NO:	9442	9486	9637	2663	3599	3886	4082	4180	4742	4882	6049	6211	6213	6572	7168		7240	7352	7704	7704	7851	8291	8291	2637	3057

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ressed in Heart	Top Hit Descriptor	anine rihmylate aminatranaferen (AOVT)	niens differentiation anticon CO20 cms 2	ok20g01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sepiens cDNA done IMAGE:1656912.3' similar to	na repolate define it.	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROTEIN) (DOWN-REGULATED BY V-SRC)	ofinorotain E (ABOE) sees house.	E SERINE/THREONINE-DROTEIN YINKSE COSTO 1990	283-201199-011-111 CT0283 Home Continue - DNA	1 (ERYTHROCYTE ANKVRIN)	1 (ERYTHROCYTE ANKYRIN)	ab90f10.s1 Stratagene lung (#937210) Horno sapiens cDNA clone IMAGE:854251 3' similar to contains MER20.t1 MER20 repetitive element	iens KIAA0555 gene broduct (KIA 20555)DNA	qw16g09x1 NCI_CGAP_Ut3 Homo sapiens cDNA clone IMAGE:1991296 3' similar to contains Alu repetitive	Thiroid Home contains a DNA Eland of the	DE2 250 400 472 Lot OTXXXXX 1	2F1 NIH MGC 57 Home confort Child III III III MGC 57 Home confort Child III III MGC 57 Home confort Child III III III MGC 57 Home confort Child III III III III III III III III III I	379-010300-105-d11 RT0370 Home content of the conte	379-010300-105-411 BT0376 Home conjunctions	ABUNDANT MESSAGE PROTEIN (OAM PROTEIN)	0x08e02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1655738 3' similar to	AEKS. Z. MEKS repetitive element ;	ulus E-cagnerin binding protein E7 mRNA, complete cds 70-110400 กรร สถา I Monzo บ	ions coloring observed to the second to the	Homo sapiens chromosome 21 segment HS21C046	I dans awar it and internal the male of the state of the	EST185496 Colon carriname / HCO) III 11
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Himan alanine rolymy late aminotransferance (ACVT)	Homo saniens differentiation entires Choose and a series of the series o	0x20g01.77 Soares, fetal fiver_spleen_INFLS_S1 Homo sapiens cDNA done i	Homo sapiens chromosome 24 segment MC24 China	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROT BY V-SRC)	SUSHI REPEAT-CONTAINING PROTEIN SRPX PRECURSOR (DRS PROT BY V.SRC)	Himan andinoprotein E (APOE) sons housely	PUTATIVE SERINE/THREONINE DROTEIN KINASE COSTAS	RG3-C10283-201190-011-h11 CT0283 Home Conjunctive	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)	ANKYRIN 1 (ERYTHROCYTE ANKYRIN)	ab90f10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:8545 MER20.t1 MER20 repetitive element	Homo sabiens KIAA0555 gane product (KIAA0555) mDNA	qw16g09x1 NCI_CGAP_Ut3 Homo sapiens cDNA done IMAGE.1891296 3' sir	TOOTO Thirrid Home canions a DNA Flands in Free	OV2-OTORS 250400 472 For OTSSSS 1	1881527F1 NIH MGC 57 Home conference Pake 1	QV3-BT0379-010300-105-d11 BT0370 Home control (NAGE: 40939/2 5)	QV3-BT0379-010300-105-411 BT0379 Home control	OVARIAN ABUNDANT MESSAGE PROTEIN (DAM PROTEIN)	38e02.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IA	Contains MER8 t2 MER8 repetitive element;	inus musculus E-cadnerin binding protein E7 mRNA, complete cds	mo copions cooling channel in the control of the co	Homo sapiens chromosome 21 segment HS21C046	man ARI mans awan 1h and interna 1h	EST185496 Colon carringme (HCC) II
le Exon Probe	Top Hit Database Source	L		H IMAN		ISSPROT		Т	/ISSPROT	Τ	7	T	EST HUMAN M		HIMAN	Т	7	T	Т	Т	Т		NT HUMAN CO	T HIMAN			Ĭ	T HI IMAN
Sing	Top Hit Acession No.	1.5	-	10,7	09.2			-		539.1			29.1	7662177 NT	7.0E-06 Al368252 1			72.1	- 68	1.69		A 000000 A 30 TO 80			8157	5.0E-06 AL163246.2	-	
	Most Similar (Top) Hit BLAST E Value	9.0E-06 M6175	9.0E-06 L23416	9.0E-06 A10343	8.0E-08	9.0E-06 Q63769	9.0E-06 Q63769	9.0E-06	9.0E-06 Q10364	8.0E-06 AW362	8.0E-06 Q02357	8.0E-06 Q02357	7.0E-06 AA6697	7.0E-06	7.0E-06	7.0E-06/	7.0E-06 AW8831	7.0E-06 BF2159	6.0E-06 BE0691	6.0E-06 BE0691	6.0E-06 Q01456	20108	6 0F-06 A	6.0E-06	6.0E-06	5.0E-06 A	5.0E-06 U07561.	5.0E-06 AA3136
	Expression Signal	2.94	2.58	10.24	1.16	2.81	2.81	4.58	3.35	1.55	2.24	2.24	1.7	3.19	99.9	0.85	5.73	5.39	1.09	1.02	1.77	200	1.46	1.88	1.8	3.58	1.98	6.9
	ORF SEQ ID NO:		25591	26611	27004	27257	27258	27394	28434	22251	29087	29088		21191		-	-	24900	22607	23336	22637	24328	24979	-	26195	25706	25843	27907
	Exon SEQ ID NO:	13473	15513	16428	16809	17069	17089	17193	18186	12722	18796	18796	10886	11326	12772	13432	15412	19698	12814	13549	12838	14539	15203	17520	19377	15604	15731	17667
	Probe SEQ ID NO:	3559	5599	6570	6931	7192	7192	7317	8309	2483	8992	8992	88	428	2844	3516	5493	9072	2887	3635	4647	4653	5281	7670	0066	5695	5825	7817

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Table 4
Single Exon Probes Expressed in Heart

		T	1	T^{-}	\neg	Т	T	T	Т	Т	τ	Т	$\overline{}$	7	7-		_	Т	T	T-	7	7		1	_		_
Single Exon Probes Expressed in Heart	Top Hit Descriptor	HA0877 Human fetal liver cDNA library Homo sapiens cDNA	ya48c03:r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:53254 5 similar to contains Alu repetitive element; contains L1 repetitive element;	xc69g12.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589574 3' similar to contains Alu repolitive element contains element MFR21 repolitive element.	1633e09x1 NCI CGAP HSC2 Homo septems CDNA clone IMAGE-2056468 31	tb33e09.x1 NCI CGAP HSC2 Homo saplens cDNA clone IMAGE-2058168 3	QV2-NT0046-200600-250-h07 NT0046 Homo sapiens cDNA	UI-H-BI0-aat-f-05-0-UI.s1 NCI_CGAP_Sub1 Homo saplens cDNA clone (MAGE: 2710425 3:	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	L3-CT0214-150200-074-B03 CT0214 Homo sapiens cDNA	wi94c10.x1 NCI_CGAP_Brn25 Homo saplens cDNA clone IMAGE:2432562 3' similar to contains element MER22 renefitius element	Hano sapiens chromosome 21 segment HS2/Cn70	Homo sapiens T cell receptor beta locus. TCRRV73342 to TCRRV4382 region	Homo saplens mRNA, chromosome 1 specific transcript KIAAAARR	234b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:432663 3' similar to contains L1.11 renetitive element :	zi34b08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:452663 3' similar to	Contains List lepecative element;	Homo sapiens PP1200 mRNA, complete cds	ak48g11.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409252.3' similar to contains LTR1.t3_ LTR1 repetitive element;	W22a05.X1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2425616 3' similar to TR:060734 060734	has 4413 of NCI CGAP HN/3 Home services a DNA Alexa 144 OF 2424 25	ha64d12.x1 NCI CGAP HN13 Homo septems cDNA clans IMA CE 34344E4 31	yb78b10.r1 Strategene overy (#837217) Homo sapiens cDNA clone IMAGE:77275 5' similar to contains L1	Homo sapiens gene for alphe-1-microglobulin-bikunin, exons 1-5 (encoding alpha-1-microglobulin, N- fermings)	MINEJ REVERSE TRANSCIPITASE HOMOLOGI	RC0-T0001-281199-011-403 T0001 Home conjens child	HOMEOBOX PROTEIN GOOSECOID
Jie Exon Pro	Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	ΝΤ	EST_HUMAN	EST HUMAN	Z	TN	LN LN	EST HUMAN	1467 11 11 11 11 11	TOWAR	2	EST_HUMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	L L	SWISSPROT	EST HUMAN	SWISSPROT
ilio	Top Hit Acession No.	5.0E-06 Al065045.1	R16267.1	AW103354.1	28.1		4.0E-06 BF365612.1	4.0E-06 AW015401.1	4.0E-06 AF198349.1	4.0E-06 AW848295.1	A1886939.1	19.2			3.0E-06 AA700562.1		3.0E.06 A E20282E 4	I	3.0E-06 AA868218.1	10,1		3.0E-06 BE047094.1				62.1	
	Most Similar (Top) Hit BLAST E Value	5.0E-06	4.0E-06 R16267	4.0E-06 AW103	4.0E-06 A13349;	4.0E-06	4.0E-06	4.0E-06	4.0E-06	4.0E-06	4.0E-06 A188693	4.0E-08	4.0E-06	4.0E-06	3.0E-06	2 OE 08	20100	3.0E-00	3.0E-06	3.0E-06 AIB5777	3.0E-06	3.0E-08	3.0E-06 T50266	3.0E-06 X54816	3.0E-06 P08548	3.0E-06 AW3852	2.0E-06 P54366
	Expression Signal	4.74	4.41	9.3	5.18	5.18	2.23	1.22	1.39	1.78	1.58	1.02	3.1	3.74	1.27	1 97	137	Ş.	0.95	2.14	1.26	1.26	0.9	4.31	1.92	4.17	3.28
	ORF SEQ ID NO:	25204	20380	20605	21074				22746	23520	24378	24504		28139	21904	21905	2001	+	22610		23412	23413	24053	24146	-		
	Exon SEQ ID NO:	19311	10568	10755	11218				ł	13731	14588	14721]	17895	12006	12008	12105	2017	12818	13152	13628	13628	14272	14355	16154	19110	10167
	Probe SEQ ID NO:	9795	831	828	1312	1312	1458	2218	3025	3819	4702	4840	7109	8746	2117	2117	2220		2891	3228	3716	3716	4376	4461	6290	9494	195

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Single Exon Probes Expressed in Heart

					אוויס	JIE EXON Prot	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
1550	11455		6.27	2.0E-06	2.0E-06 P21414	SWISSPROT	POL POLYPROTEIN [CONTAINS: PROTEASE; REVERSE TRANSCRIPTASE; ENDONUCLEASE]
2326	12207	22106	2.95	2.0E-06	2.0E-06 AI672138.1	EST HUMAN	wa04a03.x1 NOL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2297068 3' similar to contains MER30.b1 MER30 repetitive element:
2418			214	2.0E-06 P04929		SWISSPROT	HISTIDINE-RICH GLYCOPROTEIN PRECURSOR
2519			2.69			SWISSPROT	KNOB-ASSOCIATED HISTIDINE-RICH PROTEIN PRECURSOR (KAHRP)
3475	13391	23196	1.11	2.0E-06	2.0E-06 AV657555.1	EST HUMAN	AV657555 GLC Homo sapiens cDNA clone GLCFDB05 3'
3700			1.5	2.0E-06		EST HUMAN	zp02e05.r1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA clone IMAGE:595232 5'
3710	13623	23406	1.5	2.0E-06		LN	Mus musculus gene for odorant receptor A16, complete cds
5878	15784	26904	5.08	2.0E-06	2.0E-06 AI819424.1	EST_HUMAN	wjs0b04.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410063 3
7136	17013	27206	1.65	2.0E-08		EST_HUMAN	yu37c04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:235974 5' similar to gb:X74929 KERATIN, TYPE II CYTOSKELETAL 8 (HUMAN);
9403	19699	24901	1.35		2.0E-06 P23249	SWISSPROT	PROTEIN MOV-10
9548	19148	,	2.48		2.0E-06 BE328232.1	EST_HUMAN	hs92f02.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3144699 3' similar to contains L1:t2 L1 repetitive element;
31	10018	19813	1.9	1.0E-06 076082		SWISSPROT	ORGANIC CATION/CARNITINE TRANSPORTER 2 (SOLUTE CARRIER FAMILY 22, MEMBER 5) (HIGH-AFFINITY SODIUM-DEPENDENT CARNITINE COTRANSPORTER)
641	10578	20394	1.61	1.0E-06	1.0E-06 AF084364.1	NT	Mus musculus D6MM5E protein (D6Mm5e) mRNA, camplete cds
1435	11340		2.22	1.0E-06 P09125		SWISSPROT	MEROZOITE SURFACE PROTEIN CMZ-8
1507	11412	21271	1.09	1.0E-06	1.0E-06 AL163278.2	LN	Homo sapiens chromosome 21 segment HS21C078
1554	11459	21317	0.93	1.0E-08	1.0E-06 AA034141.1	EST_HUMAN	206a12.s1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:428982.3' similar to contains Alu repetitive element,
1554	11459	21318	0.93	1.0E-06	1.0E-06 AA034141.1	EST HUMAN	206a12.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429982 3' similar to contains Alu repetitive element:
1565	11470		1.2	1.0E-06	1.0E-06 P27625	SWISSPROT	DNA-DIRECTED RNA POLYMERASE III LARGEST SUBUNIT
1949	11844		4.74	1.0E-06	1.0E-06 AF184614.1	PN	Homo sapiens p47-phox (NCF1) gene, complete cds
1949	11844	21730	4.74	1.0E-06	1.0E-06 AF184614.1	N	Homo sapiens p47-phox (NCF1) gene, complete cds
4273	14172	23949	11.11	1.0E-06	1.0E-06 U07561.1	LN	Human ABL gene, exon 1b and intron 1b. and putative M8604 Met protein (MR604 Met) gene complete cde
5043	14915	24688	1.38	1.0E-06	1.0E-06 AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5043			1.38	1.0E-06	2	NT	Homo sapiens chromosome 21 segment HS21C085
5233		24925	4.69	1.0E-06	15.1	EST_HUMAN	MR1-BT0800-030700-002-c06 BT0800 Homo sapiens cDNA
6107		26139	6.11	1.0E-06 P02671		SWISSPROT	FIBRINOGEN ALPHA/ALPHA-E CHAIN PRECURSOR
6813	16692	26881	1.16	1.0E-06	1.0E-06 Al347010.1	EST_HUMAN	qp54e02.x1 NCI_CGAP_Co8 Homo saplens cDNA clone IMAGE:1926842.3'

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	Top Hit Descriptor	qv23f06.x1 NCI_CGAP_Lym6 Homo sapiens cDNA clone IMAGE:1982435 3' similar to contains element MIR repetitive element :	ed products, complete cds	oducts, complete cds	cDNA clone IMAGE:587174 5'	ns cDNA clone IMAGE:785493 3' similar to	California		cds			at regions	regions		378876 3'	788763'	KIPTASE; ENDONUCLEASE]	001011111111111111111111111111111111111			AP) gene, exons 10 and 11	ne, partial cds; cytochrome P450 21- (SKI2W), RD, complement factor B		49 3' similar to TR:075920 075920			5547 3	1547 3'
olingia Lyoni Flobes Expressed III near		qv23f06.x1 NCI_CGAP_Lym6 Homo sa MIR repetitive element :	Homo sapiens shox gene, alternatively spliced products, complete eds	Homo sapiens shox gene, alternatively spliced products, complete cds	2017e0B.r1 Stratagene colon (#937204) Homo sepiens cDNA clone IMAGE:587174 5	2004011.81 Soares_total_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:785493 3' similar to gb:D26129 RIBONUCLEASE PANCREATIC PRECURSOR (HI IMAN).	Homo sapiens chromosome 21 segment HS21C003	RC4-NT0054-120500-012-b03 NT0054 Homo sapiens cDNA	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds	Homo sapiens p47-phox (NCF1) gene, complete cds	Homo sapiens p47-phox (NCF1) gene, complete cds	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions	Homo sapiens chromosome 21 segment HS21C081	ql82g07.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878876 3*	HOSBOLAL SOCIETE MILLIMENT ST HOMO Sapiens CDNA Clone IMAGE:1878876 3*	Homo sabiens UDP-diligiranced transferance one constitution of the control of the	EST05660 Fetal brain. Stratagene (cattle36206) Homo capiene cus	Homo sapiens chromosome 21 segment HS21C080	Homo saniens mentene interleutin 1 sectors sec	CM3-CT0277-221099-024-e11 CT0277 Homo sapiens cDNA	Homo sapiens HLA class III region containing tenascin X (tenascin-X) gene, partial cds; cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SKI2W), RD, complement factor B	(b), and complement component C2 (C2) genes,> HYPOTHETICAL 24.1 KD PROTEIN IN 1 EE4.P33 INTERCENIC BEGINS	7g94f07.x1 NCI_CGAP_Co16 Homo sapiens cDNA done IMAGE:3314149 3' similar to TR:075920 075920	CM4.NN1029.250306.124 F42 NN14030 H	wh64fth v1 NCI CGAP Ki414 Home control of the contr	EST93615 Supt cells Home sepiens CNA 5' and	wh64f10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2385547 3
gie Exoli r lo	Top Hit Database Source	EST HUMAN	LN	N	EST HUMAN	EST_HUMAN	NT	EST_HUMAN	LN	NT	NT	L	, L	LN	EST HUMAN	SWISSPROT	LN	EST HUMAN	TN	TN	EST HUMAN		SWISSPROT	1	1	Т	Т	П
5	Top Hit Acession No.	1.0E-06 AI287878.1	U82668.1	U82668.1	1.0E-06 AA132611.1	1.0E-06 AA449257.1	1.0E-06 AL163203.2	1.0E-06 AW890941.1	L78810.1	1.0E-06 AF184614.1	AF184614.1	9.0E-07 AF003529.1	9.0E-07 AF003529.1	9.0E-07 AL163281.2	8.0E-07 AI288596.1 8.0E-07 AI288596.1	21414	AF135416.1		22		4W855558.1	R OF -0.7	941479	3E001867 1	6.0E-07 AW903222 1	(1831893.1	5.0E-07 AA380630.1	1831893.1
Most Similar	(Top) Hit BLAST E Value	1.0E-06	1.0E-06 U82668.	1.0E-06 U82668.	1.05-08	1.0E-06	1.0E-06	1.0E-06	1.0E-06 L.78810.1	1.0E-06	1.0E-06 AF18461	9.0E-07	9.0E-07	9.01-07	8.0E-07	8.0E-07 P21414	8.0E-07 AF13541	8.0E-07 T07770.1	8.0E-07 AL16328(7.0E-07 AF16734	6.0E-07 AW8555	20 HO	6.0E-07 P41479	6 0F-07 BE00486	6.0E-07	5.0E-07 AI831893	5.0E-07	5.0E-07 AI831893
	Expression Signal	1.53	3.72	3.72	4.80	3.73	1.52	4.81	2.99	1.84	1.84	1.49	1.49	7.00	4.49	7.45	7.89	7.2	4.15	0.94	2.36	6	1.65	1.35	1.81	3.55	2.9	0.87
	ORF SEQ ID NO:				2/0/2				25280	21729	21/30	20134	20135	20/00	24337					21599	21641	22247		27351				
L L	SEQ ID NO:			17433			17839	18720	19077	11844	100	10314	10314	14547	14547	15504	16547	18703	18838	11719	11766	12319	13802	17156	19653	10284	10959	12923
Prohe	SEQ ID NO:	6944	7582	7807		7637	7989	8912	9440	9536	2000	100	2572	4664	4661	5589	9999	8893	9055	1822	1870	2442	3891	7279	9303	323	1041	2995

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		$\overline{}$	\neg	7	7	7	Т	7	7	Т	Т	$\overline{}$	<u> </u>	7	-		7	1=	7-		_	-	7	-	-,	.	
Single Exoll Flobes Expressed in Rear	Top Hit Descriptar	PROTEIN-ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4) (PEPTIDYLARGININE DEIMINASE TYPE AI PHA)	loc04c10.s1 NCI CGAP GCB1 Home saniens cDNA close IMACE:1330800 2	QV1-UM0036-200300-115-902 UM0036 Homo sapiens cDNA	Horn canions whromosome of dusting of the Transfer	Raffus nonverleus mRNA for 45 kms co-servicement in martin.	Homo sabiens TRF2-interacting feloments RAD1 protein (DAD4)	Homo sablens DiGeorge syndrome critical realon telomeds and	Homo sapiens DiGeorge syndrome critical region teloment and	Fugu rubripes beta-oktoplasmic/vascular) actin gene complete calc	Homo sapiens homeobox profein CDX4 (CDX4) date complete and standard	Homo sapiens homeobox protein CDX4 (CDX4) gene complete cds and finally repeat regions	208b07.s1 Stratagene NT2 neuronal precursor 937230 Homo saplens cDNA clone IMAGE:650869 3' similar to db:131860 GI YCOPHORIN A PRECURSOR (HI IMANI) combine All	yo15g04.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:80790 3' similar to contains L1	indicative distribution (HYPOTHETICAL 72 5 KD PROTEIN C2E2 10 IN CUBOMOSCALE!	Homo sapiens caveolin 1 (CAV1) dene exon 3 and partial cits	xa05h07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567485 3' similar to WP:C38H2.1 CE00923 PROBABLE RABGAP DOMAINS:	xa05h07x1 Soures_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567485 3' similar to WP; C38H2.1	Homo saniens chromosomia 21 seamont HS2/C104	RC3-NN0086-260400-021-411 NN0068 Home majore ability	9958405.x1 Soares festis NHT Homo seniens cDNA chare WAGE-1830477 at	AV729390 HTC Homo sapiens cDNA clone HTCAFGRO 5'	Homo saplens chromosome 21 seament HS21C3103	CM4-NN0003-280300-124-e06 NN0003 Homo sapiens cDNA	zn85h11.x5 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565029 3' similar to contains THR.b2 THR repetitive element:	Homo sapiens chromosome 21 segment HS21C082
gie Exoli Pio	Top Hit Database Source	SWISSPROT	EST HUMAN	EST_HUMAN	F	LN	L.	Į.	LZ.	¥	¥	N.	EST HUMAN	TOT THE PART	CIVIOS DE L'ACIMAIN	SWISSPROT	NT	EST_HUMAN	EST HIMAN	LN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST_HUMAN	EST HUMAN	N-
	Top Hit Acession No.	088807	3.0E-07 AA815175.1	3.0E-07 AW797168.1	3.0E-07 AF029308 1	3.0E-07 AJ132352.1	2.0E-07 AF262988.1	_77569.1	77569.1	J38849.1	20E-07 AF003530.1	2.0E-07 AF003530.1	2.0E-07 AA223260.1	1830.43.4	726768	209701	2.0E-07 AF125348.1	\W070995.1	W070995 1	L163301.2	\W898066.1	1/208715.1	2.0E-07 AV729390.1		W892507.1	4	2
	Most Similar (Top) Hit BLAST E Value	3.0E-07 O88807	3.0E-07	3.0E-07	3.0E-07	3.0E-07	2.0E-07	2.0E-07	2.0E-07 L77569.1	2.0E-07 U38849.1	20E-07	2.0E-07	2.0E-07	2 OE 07 T83042	2 OF -07 1026768	2.0E-07 Q09701	2.0E-07/	2.0E-07 AW07099	2.0E-07 AW07099	2.0E-07 AL 163301	2.0E-07 AW89806	2.0E-07 AI208715.	2.0E-07	2.0E-07 AL163303	2.0E:07 AW89250	2.0E-07 AI732462.	1.0E-07 AL163282
	Expression Signal	10.26	5.32	3	e	2.76	2.62	4.75	4.75	116.1	1.71	1.71	3.11	3 38	1 28	18.	14.74	0.97	0.97	0.95	1.73	1.69	3.91	1.61	6.48	1.48	121
	ORF SEQ ID NO:	25462		26456			19807	19940	19941	19962	20495	20496	20701	20702	20903		23334	24723	24724	24826	24975	26041			27984		
	Exen SEQ ID NO:	15396		16294	18726	L	10013	10122	10122	10146	10663	10663	10853	10854	11060	11486	13547	14948	14948	15061	15199	15914	16812	17478	17741	19557	11002
	Probe SEQ ID NO:	5476	6026	6433	8918	6666	28	148	148	176	731	731	928	928	1147	1582	3633	6078	5078	5198	5277	6009	6934	7627	7891	9094	1086

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Single Exon Probes Expressed in Heart

							ongo Even Topics Expressed in regar
Probe SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2331	12212	22110	0.94	1.0E-07 P10263	P10263	SWISSPROT	RETROVIRUS-RELATED GAG POLYPROTEIN (VERSION 1)
2403	12280	22177	0.94	1.0E-07	7549818 NT	N	Homo sapiens RAB, member of RAS oncogene family-like 2A (RABL2A), transcript variant 2 mRNA
2797	11410	21269	1.75	1.0E-07 P09256		SWISSPROT	GLYCOPROTEIN GPV
3684			1.33	1.0E-07		NT NT	Homo sapiens chromosome 21 segment HS21C082
4195		23874	2.37			EST_HUMAN	AV718662 GLC Homo sapiens cDNA clone GLCFNF04 5'
4195			2.37		1.0E-07 AV718662.1	EST_HUMAN	AV718662 GLC Homo sapiens cDNA clone GLCFNF04 5'
6103			5.2		1.0E-07 BE047871.1	EST_HUMAN	1243d08.y1 NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2291339 51
6103			5.2		1.0E-07 BE047871.1	EST_HUMAN	1243d06.y1 NCL CGAP Brn52 Homo sepiens cDNA clone IMAGE:2291339 5'
6424			9.04		1.0E-07 N55081.1	EST_HUMAN	yv43c07.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245484.3'
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6782		26851	2.81	1.0E-07 P97435	P97435	SWISSPROT	ENTEROPEPTIDASE (ENTEROKINASE)
7180		27246	3.24	1.0E-07	3.1	EST_HUMAN	zi51e10.s1 Scares_fetal liver_spleen_1NFLS_S1 Homp sapiens cDNA clone IMAGE-43446.3
7714			2.37	1.0E-07	1.0E-07 BF674524.1	EST HUMAN	602137714F1 NIH MGC_83 Homo sapiens cDNA clone IMAGE:4274426 5'
7716		277792	1.28		1.1	EST_HUMAN	EST185054 Brain IV Homo saplens cDNA
7980	17830		1.56	1.0E-07	1.0E-07 AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
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8570	18438		2.39	8.0E-08		NT	Homo sapiens microsomal epoxide hydrolase (EPHX1) gene, complete cds

Page 154 of 413 Table 4 Single Exon Probes Expressed in Heart

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Page 155 of 413 Table 4

Single Exon Probes Expressed in Heart	Top Hit Descriptor		zq45d05.r1 Stratagene hNT neuron (#937223) Home cont	2445d05.1 Stratagene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:632649 5' bb79a10.y1 NIH MGC 10 Homo capiens cDNA clone IMAGE:632649 5'	SYNTAXIN 17.	qs76/11.y5 NCL CGAP Prz8 Homo saniens - DNA	Homo sapiens chromosome 21 segment HS210046	93h09x1 Scares_NSF_F8 9W OT PA D S4 LAWS	TR:Q13537 Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE by 302704.71 Sogres Infant brain 1 NIR Home	repetitive element.	X67f06.X1 NCI_CGAP_Lu26 Homo sapiens cDNA clone IMAGE:2767139 3'	Alu repetitive element contained. Nb2HF8_9w Homo sepiens cDNA clone IMAGE:773317 5' similar to	Gallus gallus Dach? modeln (Dochs) - Data	MR0-0T0080-240200-001-008 OT0080 U.	MR0-OT0080-240200-001-008 OT0080 Home certification	601155321F1 NIH_MGC 21 Homo sanians and All March and All	Homo sapiens chromosome 21 segment HS217047	601570463F1 NIH MGC 21 Horno Sablens CIDNA Plans IMAGE SECTION	xp43f11.x1 NCI_CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743149 3'	repetitive element -	Sheep His-tRNA-GUG	WNT-14 PROTEIN PRECURSOR	WNT-14 PROTEIN PRECURSOR	RC3-ST0197-161099-012-b03 \$T0197 Home services - FM3	Homo sapiens shox gene, alternatively spliced products, complete cds	repetitive element;	repetitive element	ab02g06.s1 Stratagene fetal retina 937202 Home	nee32e09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3257969 3'
igle Exon Prob	Top Hit Database Source	П	П	T		T_HUMAN	LN.		\top		ESI HUMAN	EST_HUMAN A	Т		HUMAN	HUMAN	\neg	T	EST HUMAN XP	EST HUMAN reg	П			HUMAN		EST_HUMAN rep			EST_HUMAN nag
Sir	Top Hit Acess No.	AA40440E 4	3 0F-08 AA4040E 4	74 181 185.1	3.0E-06 BEU18348.1	3.0E-08 AI /92737.1	2:2L-30/AL 103/40.2	3.0E_08 A1436350 4		98.4				1					-	8.1			7		N				
	Most Similar (Top) Hit BLAST E Value	305.08	3 05 0	90.00	3.0E-08	3.0F-08	201-00	305.08	3 OE 08	2.0E-08		2.DE-08	2.05-08	Z.UE-U8/	205.08	2 0E 09 AI 4500477	2 OF OR DE 72 4974	2.0F-08 AW27027		2.0E-08 AA731948.	2.0E-08 K00216.1	200000	2.0E-09 042280	2 OF OR 1 192669 4		Z.UE-08 AA459040.	2.0E-08 AW 572881.1	2.0E-08 AA490121.1	2.VL-00 Br
	Expression Signal	7.24	7.24	000	3 58	141		2.97	17.8	15.76		7.97	9.5	1003	37.42	1.93	1.03	3.89	,	7.42	602	602	1.66	0.78	3 95	1_	7 54		
	ORF SEQ ID NO:	24812	24813	25423	24864	26478						20245	20396	20397		21082			3340	1	22901	22902		23669			26791	29092	
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	Probe SEQ ID NO:	5184	5184	5446	6163	6451		6558	9027	138	223	488	644	644	974	1319	1707	1811	2368	2496			I	3986	4305	4876		8995	

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Table 4
Single Exon Probes Exprassed in

	·	I EACE!	(EASE)	roject=TCBA Hamo	raject=TCBA Hamo											732164 3' similar to		76.01		nctional protein, exon 2, 3		lion in	ACDESA E	ar to contains L1.t2 L1		1.3'		warfism) (FGFR3) mRNA	
Single Exon Probes Expressed in Heart	Top Hit Descriptor	POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE : ENDONI 10 EASE)	PM2-HT0130-150999-001-f12 HT0130 Homo saplens cDNA	TCBAP1D5232 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP5232	TCBAP1D5232 Pediatric pre-B cell acute lymphoblastic feukemia Baylor-HGSC project=TCBA Homo	Home satisfies chronosome 21 coment HS3407gg	Homo sapiens hyperion dene exona 1-50	10(35a05.s1 Soares testis NHT Homo septens cONA clone IMAGE: 1618736 3	Homo sapiens malor histocompatibility locus class III region	Human lambda-immunoglobulin constant region complex (germline)	Human lambda-immunoqlobulin constant region complex (germline)	MR4-ST0240-240700-013-c04 ST0240 Homo seniens cDNA	Homo sapiens chromosome 21 segment HS21C07g	Homo sapiens chromosome 21 segment HS21C079	RC5-BN1058-270400-031-C06 BN1058 Homo saniens CDNA	qd42e07.x1 Scares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1732164 3' similar to contains MSR1 th MSR1 repetitive element	CMO-NN 1004-100300-273-eng NN 1004 Home sanions and A	op74d08.s1 Soares NFL T GBC S1 Homo saniens cDNA clone IMA CE-1580575 2	Horno saniane DNA for 2 Letronal CoA thisland Let	Homo saciens dene for enteric smooth miscle namme acting way 2.3	Human Ivsosomal membrane divcoprotein-2 (LAMP2) gene 5' and finalting to the	601111173F1 NIH MGC 16 Homo sapiens CDNA clane IMAGE 3351834 5	DKFZp434C0514_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434CnF14 F	nI17a11.s1 NCI_CGAP_HSC1 Homo sapiens cDNA clone IMAGE:1040924 similar to contains L1.t2 L1 repetitive element:	PM1-HT0527-160200-001-h05 HT0527 Homo seriens cDNA	xn85h08.x1 Soares_NFL_T_GBC_S1 Homo capiens cDNA clone IMAGE:2701311.3	Horm caniane fibroking grounds forests as a second	Homo saniens hadis-anacific kinasa automa (1967) mRNA	RC2-HT0252-120200-014-h10 HT0252 Homo sapiens cDNA
gle Exon Pro	Top Hit Database Source	SWISSPROT	EST_HUMAN	EST HUMAN	TOT LOS	NT TOWN	Į.	EST HUMAN	L	Z	LN	EST HUMAN	LN LN	ĮN.	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	l L	Z	TN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	F	L	EST_HUMAN
Sin	Top Hit Acession No.	1.0E-08 P31792	1.0E-08 BE141959.1	1.0E-08 BE246844.1	1 OF DR BE246944 1	1.0E-08 AL 163280.2	1.0E-08 AJ010770.1	1.0E-08 AI015304.1	1.0E-08 AF044083.1	1.0E-08 X51755.1	1.0E-08 X51755.1	1.0E-08 BF375398.1	9.0E-09 AL163279.2	9.0E-09 AL163279.2	8.0E-09 BE012076.1	8.0E-09 A1183500.1	8.0E-09 AW900159.1	8.0E-09 AA938892.1			7.0E-09 L09709.1	7.0E-09 BE254850.1	6.0E-09 AL040439.1	6.0E-09 AA557940.1	-:	6.0E-09 AW195784.1	4503710 NT	6.0E-09 AF200923.2	-
	Most Similar (Top) Hit BLAST E Value	1.0E-08	1.0E-08	1.0E-08	4 OF AR	1.01.08	1.0E-08	1.0E-08	1.0E-08	1.0E-08	1.0E-08	1.0E-08	9.0E-09	9.0E-09	8.0E-09	8.0E-09	8.0E-09	8.0E-09	7.0E-09 D86842	7.0E-09	7.0E-09	7.0E-09	6.0E-09	6.0E-09	6.0E-09	6.0E-09	6.0E-09	6.0E-09	5.0E-09
	Expression Signal	1.13	2.92	1.24	1 24	1.43	4.05	1.84	3.66	2.01	6.3	1.76	2.98	2.98	1.07	6.12	2.71	3.06	1.68	0.99	3.27	1.84	1.06	1.06	4.44	8.19	2.26	4.06	3.09
	ORF SEQ ID NO:	21257		22881	22882	24818	25414	27045	28773				23823	23824		26328	26743			24236	27403	27945		23625	24562	25030	27370		21157
	Exon SEQ ID NO:	12696	11897	13080	13080	15054	15358	16852	18498	19074	19316	19518	14049	14049	13361	16171	16546	17073	13469	14450	17203	17700	11996	13849	14786	15226	17170	17746	11299
	Probe SEQ ID NO:	1483	2005	3155	3155	5191	5438	6975	8633	9434	9804	9894	4149	4149	3444	6307	9999	7196	3555	4558	7335	7850	2107	3941	4906	5305	7294	7896	1394

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Single Exon Probes Expressed in Heart

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5858	15764		1.92	5.0E-09	5.0E-09 AA359454.1	EST HUMAN	EST68746 Fetal lung II Homo sapiens cDNA 5' end
7811	17661	27901	2.69	5.0E-09		EST HUMAN	PMz-UM0053-240300-005-c09 UM0053 Home sentens cONA
510	10452		1.68	4.0E-09		TN	Homo sapiens chromosome 21 segment HS21CnR2
949	10873		2.31	4.0E-09	4.0E-09 AL163285.2	IN	Homo sapiens chromosome 21 segment HS210085
1453	11358	21222	96'0	4.0E-09	9558718 NT	IN	Homo sapiens hypothetical protein (AF038469) mRNA
2379	12259		98'9	4.0E-09	AA35087	EST_HUMAN	EST58385 Infant brain Homo sapiens cDNA 5 end similar to similar to hear short protein on the
2303	12184	22082	3.82	3.0E-09	3.0E-09 BE222239.1	EST_HUMAN	hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3168120 3' similar to contains MER18.t3 MER18 repetitive element:
2506	12380	22270	1.25	3.0E-09	3.0E-09 BE222239.1	EST HUMAN	hu09e09.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3 MER18 reneilitue element :
2614	12482	22371	1.1	3.0E-09 P23249	P23249	SWISSPROT	PROTEIN MOV-10
3287	13208	23008	1.1	3.05-09	3.0E-09 BE222339 1	HOT LIMAN	hu09e09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166120 3' similar to contains MER18.t3
4329	14226		3.22	3.0E-09		L	Homo seniens en kennetic initiation fentor 4A (ZEEAA4)
4411	14305		1.54	3.0E-09		SWISSPROT	258.1 KDA PROTEIN CHARES INTO A DOSAN
7884	17734	27978	1.73	3.0E-09	3.0E-09 AL163247.2	N	Homo sapiens chromosome 21 segment HS21Ch47
8384	18261	28510	3.8	3.0E-09	3.0E-09 BF109943.1	EST_HUMAN	7/72c08.x1 Source NSF F8 9W OT PA P S1 Homo seniens CONA clans IMA CE 22527789 21
8384	18261		3.8	3.0E-09	3.0E-09 BF109943.1	EST_HUMAN	7172c08.xt Soares NSF F8 9W OT PA P St Home seniens crink class MACE assessed as
192	10724		0.93	2.0E-09			H.sapiens PADPRP-I gene for NAD(+) ADP-ribosyltransferase
1637	14644	20892	5.23	2.0E-09	7	TN	Homo sapiens chromosome 21 segment HS21C084
22.00	104	02000	10.52	2.0E-09	3.1	T	DKFZp761B1710_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761B1710 5
3858	13769	23561	3.65	2.0E-09 Q9Y3R5		SWISSPROT	258.1 KDA PROTEIN C210RF5 (KIAA0933)
\dagger				20.70	11.7000	Т	PRAINS FEUTIC ANGIOGENESIS INHIBITOR 2 PRECURSOR
6405	16266	26428	8.9	2.0E-09	2.0E-09 AA461430.1	EST_HUMAN	Zavollocu i Sociales, total, retus, NDZHIPS, 9w Homo sapiens cDNA clone IMAGE:796187 5' similar to contains. Alu repetitive element
7055	16932		1.37	2.0E-09	2.0E-09 AJ271735.1	Ļ	Homo sapiens Xq pseudoautosomal recion: segment 1/2
8289	18457	28726	2.11	2.0E-09	3.2	ΝΤ	Homo sabiens chromosome 21 segment HS2102048
9576	10724		11.53	2.0E-09 X16674.1		N	H.sapiens PADPRP-I gene (or NAD(+) ADP-ribosytransferase
9640	19749		1.62	2.0E-09	2.0E-09 AA226070.1	EST HUMAN	nc11c02.rf NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1007810 similar to contains Alu repetitive element
1093	11009	20850	2.48	1.0E-09	331624		Homo seriens CCAAT those binding transcription footer (CBEs)
1093	11009	20851	2.48	1.0E-09	5031624 NT		Homo series CCAAT-hox-binding transcription factor (CDE2) - Taxio
1616	11520		0.95	1.0E-09/	1.0E-09 AJ229041.1		Homo sepiens 959 kb contig between AMI 1 and CRR1 on chromosome 21,225
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						21 1110v 216	Original Lybrassed III near
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2453	12330		0.94	1.0E-09	1.0E-09 Al356086.1	EST_HUMAN	qy64e11.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2016812.3' similar to contains MER12.t2 MER12.t2
2860	_		1.51	1.0E-09	1.0E-09 U80017.1	IN	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (hato) and survival motor neuron protein (sem) senso completed and survival motor neuron protein (sem)
2895		22614			1.0E-09 M28699.1	TN.	Homo sapiens nucleolar phosphoprofein R23 (NPMA) mRNA manages 24.
2895	12822		3.25		1.0E-09 M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA complete cals
2949	12876	22674	1.23	1.0E-09 P11799	P11789	SWISSPROT	MYOSIN LIGHT CHAIN KINASE, SMOOTH MUSCLE AND NON-MUSCLE ISOZYMES (MLCK)
3002	12930		0.78		1.0E-09 BE535440.1	EST HUMAN	101058602F1 NIH MGC 10 Homo saniens clone IMAGE:3442477 2:
4692			4.26	1.0E-09.	1.0E-09 AA719297.1	EST HUMAN	zh35b03.s1 Soares_pineal_gland_N3HPG Homo septiens CONA clone IMAGE:414029.3' similar to contains. Au repetitive element contains element on the properties of the properties
5560	15476	25549	1.37	1.0E-09		LN	Himan breakning clister region (RPP) was a seculated.
5736	15644	25749	3.21	1.0E-09 P26694		SWISSPROT	CIRCUMSPOROZOITE PROTEIN PRECI IDROPO / CEN
7911			3.1	1.0E-09	33.2	N	Homo sapiens chromosome 31 seriment US31000
9478	19689	24996	2.14	1.0E-09	418127	Į.	Hamo sapiens GTP hinding profess 1 (GTPBP4) mONA
1287	11195		1.8	9.0E-10	9.0E-10 AW867740.1	EST HUMAN	WRO-SNINDAO-DEGENORACE SNINDAO HOMO CONSIGNA CONTRACTOR SNINDAO HOMO CONTRACTOR SNINDAO SNIN
	_						AVIOUS EMPIRES CLICATED TO CONTROL OF THE CONTROL O
2803	12733	22532	6.03	9.0E-10	9.0E-10 AI870071.1	EST HUMAN	we78h03.xt Soares_Dieokgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE-2347253 3' similar to SW-RI 29 HUMAN P47914 60S RIROSONAL DEOCTENI 30
6087	16032	26172	4,63	9.0E-10	9.0E-10 A1452982 1	EST HIMAN	#46b09.x1 Soarce_NSF_F8_9W_OT_PA_P_S1 Home sapiens cDNA clone IMAGE:2144537 3' similar to
141	10115	19935	9.43	8.0E-10		LN	Homo saniens MCMAA (MCMAA) and DNA PK (BBKDC)
3300		23022	0.87	8.0E-10	5	EST HUMAN	QV1-BT0631-150200-073-f01 BT0631 Home canions - CNNA
4106		23782	2.82	8.0E-10	8.0E-10 AA376832.1	EST HUMAN	EST89564 Small intestine Homo seniens cONA 5' and
7725			2:32	8.0E-10		L L	Homo sapiens lens mainr infrinsir modeln (MID) van complete J
9008		29100	2,31	8.0E-10	8.0E-10 AL163280.2	TN	Homo sepiens chromosome 21 somewat HS24.09 bits, comprete cus
989	╝	20444	12.45	7.0E-10	7706225 NT	Į.	Homo saplens TPA inducible protein (I OCS4588) mobils
988		20445	12.45	7.0E-10	7706225INT	NT	Homo saciens TPA inducible profein (1 OCS1886)DNA
1605	1	21371	1.87	7.0E-10 Q13342		SWISSPROT	LYSP100 PROTEIN (I YMPHOID RESTRICTED HOMOLOG OF SPACE)
1974	11867		1.01	7.0E-10 P08548		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOGICAL
2512			16.88	7.0E-10 P08547		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOI OG
3049	- 1	22768	2.65	7.0E-10 X00856.1		LN	H.sapiens DHFR gene. excn 3
5754	- 1	25769	3.98	7.0E-10	20.1	EST_HUMAN	EST51247 Gall bladder II Homo sapiens cDNA 5 end
6514	16373		1.39	7.0E-10 P35084			DNA-DIRECTED RNA POLYMERASE II LARGEST SUBUNIT

Page 159 of 413 Table 4 Single Exon Probes Expressed in Heart

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Table 4

Single Exon Probes Expressed in U. . .

ö	SEO ID	ORF SEQ	Expression	Most Similar (Top) Hit	Top Hit Acession	Top Hill	
		ID NO:	Signal	BLAST E Value	No.		Top Hit Descriptor
8026			1.54	3.0E-10	3.0E-10 AA760204 4	FOT 111 P 111	
9737	_[2.03	3.0F-10	3.0F-40 RF470547 4	ES HOMAN	Inz36g03.s.1 NCI_CGAP_GCB1 Homo sapiens cDNA ciona IMACE:1786600
ह्य		19814	1.43	20E-10 P48088	PARORR	ESI HUMAN	IL3-HT0618-110500-138-E07 HT0818 Homo sapiens CDNA
32	10019		1.43	2.0E-10 P48988	P48988	SWISSPROT	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) WELLEN BY
1855			594	2 DE 40	20日 1000 1000 100 100 100 100 100 100 100	OMISSIMS	MAJOR CENTROMERE AUTOANTIGEN B (CENTROMERE PROTEIN B) (CENP-B) Homo sapiens basic transcription factor 2 and that 2 and the control of the co
6547	15463		241	2.0E-10 028640	028640	NT	protein (naip) and survival motor neuron protein (smn) genes, commete and apoptosis inhibitory
5787	15693	25801	ř			DA POSTO	Homo sepiens cytochrome P450 polypeptide 43 (CYP3A43) gene, pertial cds; cytochrome P450 polypeptide 43 (CYP3A43) gene, pertial cds; cytochrome P450 polypeptide 43 (CYP3A43)
6367	16230	26389	27.7	2.0E-10/	2.0E-10 AF280107.1	Z	polypeptide 5 (CYP3A5) gene, partial A5.
1492	11397		9 50	Z.UE-10		EST_HUMAN	601586208F1 NIH MGC 7 Home services CRIA
1589	11493	21353	8 2	1.0E-10		EST_HUMAN	MR0-SN0038-290300-001-401 Shinnes (1)
37	12411		0 1	1.05-10/		EST_HUMAN	AV652123 GL C Home regions CINA A Comment of the Co
3456	13372	22470	2.4	1.0E-10 A	Ξ.	EST HUMAN	QV0-CT0295-191400 Age and control of CCXA113'
3770	13414	43110	0.89	1.0E-10 AW832912	Γ	EST HUMAN	OV2-TTOMA-164100-043 - 4-2-2-2-4-040 Sapiens cDNA
+	+	1	0.91	1.0E-10 AL041685.	1	EST_HUMAN	DKFZp434N1317 rt 434 (mmm, 11, 2)
3933	13842		5.44	1.0E-10 AF213884			Homo sapiens nuclear factor of kappa light polypeptide gene enhance.
						2	cds
4036	13939	23716	4.51	1.0E-10 U52111.2		<u> </u>	riomo saptens X28 region near ALD tocus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Ca2+/Calmodulin-dependent protein kinasa 1/rannyn
4036	13030						Homo saplens X28 region near ALD locus containing dual specificity phosphatese 0 (nu scoto).
1	2000	11/07	4.51	1.0E-10 U52111.2		l-Z	CYN, Carl (Nr L108), Ca2+/Calmodulin-dependent protein kinase / (CANKY), Ca2+/Calmodulin-dependent protein kinase / (CANKY), Ca2+/Calmodulin-dependent protein kinase / (CANKY)
Ш	13845	23724	2.25	1.0E-10 AB0310RD	-		County protein (CDM), adrenoleukodystrophy protein >
40/8	13981	+	206	1.0E-10 M30829.1	T		Himan states PCCX1 mRNA for protein containing CXXC domain 1, complete cde
5145	15012		0.93	1.0E-10 X87344 1			H. sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1 I MP7, TAP2, PAR EXON
7859	17709		7 50	L			enes 4, DOB, DUBZ and RING8, 9, 13 and 14
	18165	2840B	B: T	1.0E-10 AA081868.1			123g06.r1 Stratagene neuroexitivitim N.T.O
	-		4.0	1.0E-10 Al038280.1		EST_HUMAN o	oy85h03.x1 Spares fetal liver spleen 1NFI S S1 Home sapiens cDNA clone IMAGE:548314 5
┙	15012		1.43	1.0E-10 X87344 1	7344 1		H. sapiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMD7, TAP3, FC5
9084	18859		1.3	1.0E-10 AA397885 1	1		genes 1, 1872, UCB, DQB2 and RING8, 9, 13 and 14

Page 161 of 413
Table 4
Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | 1L2-HT0203-291099-016-c08 HT0203 Homo saniens c NA | DKFZn5470225 r1 547 (sunnum hfhrt) Home canions - DNIA DNIA | DKFZn547D225 rt 547 (stopping: bfkr1) Home capiens contact con | DKF20547D225 r1 547 (supramm: hfbz1) Home capitals CUNA citale UKF20547D225 5 | DKF265470225 rt 547 (smonym: hft.d.) Home sapiens culvA clone UK F265470225 5' | 89/8f01s1 Strategiene schiro brain S11 Home conjune CDNA clane DXF 2055 5 | RC6-BT0627-140200-011-Eng RT0627 Home carriers CDNA GIOTE IMAGE: 9/029/3 | C16535 Clontech human acrta polyA+ mRNA (#6572) Homo saniens cDNA chme CEN Engage 21 | yn53f11.s1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:172173 3' similar to contains | tin Spource atenieni. | WARRING OF INSTRUCTION OF THE PROPERTY OF THE | FST34392 Fmhn.n. 6 week! Home soniens child Fig. 3.
 | Homo saniens SNCA isoform /GNCA 2 and | RETROVIRUS-RELATED POL POLYPROTEIN [CONTAINS: REVERSE TRANSCRIPTASE;

 | AV7016F6 ANB Home company and a services of | Human mafrix (ils model) (MCB) 2000 - 1.1. | Human mainty Gla probaby (MGD) gans, complete cas | LINE-1 REVERSE TRANSCRIPTARE LOUVAI OC | AV727859 HTC Homo seniens cDNA clare UTOASOne 21 | Homo satiens chramosome 21 segment HS21Cogs
 | Homo sapiens chromosome 21 segment HS21C083 | AL DEHYDE OXIDASE | Homo sapiens chromosome 21 segment HS21C013 | Homo sapiens protocadherin beta 3 (PCDHR3) mRNA | Homo saplens KIAA0851 gene (partial). XT3 gene and I ZTEI 1 gene | 2001b12.rf Scares testis NHT Home seniers of NAA close IAA Close IAA

 | 501507531F1 NIH MGC 71 Homo seniess cDNA class INA OF SASSASS 1 | TUMSUPY069 Human brain CONA Hama emisers of the 1000 | PRE-MRNA SPLICING FACTOR RNA HEI ICASE PRP2 | Homo saplens mannosidase; beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete sets | RC1-HT0256-210100-013-f08 HT0256 Homo sapiens cDNA |
| Top Hit
Database
Source | EST HUMAN | EST HUMAN | EST HUMAN | EST HUMAN | EST HUMAN | EST HUMAN | EST HUMAN | EST_HUMAN | EST HIMAN
 | EST HIMAN | EST HIMAN | EST HUMAN | IN | SWISSPROT

 | EST HIMAN | LN | L
 | SWISSPROT | EST HUMAN | N | NT | SWISSPROT | TN
 | N. | FN | EST HUMAN
 | EST HUMAN | Γ | Т |
 | T_HUMAN |
| Top Hit Acession
No. | BE145600.1 | AL134395.1 | AL134395.1 | AL134395.1 | AL134395.1 | | | 1 | H19971.1
 | | | | | ł

 | 4V701656.1 | M55270.1 | M55270.1
 | 208547 | 4V727859.1 | | IB. | 48034 | 2
 | 6229 | | VA436042.1
 | | | | -
 | <u></u> |
| Most Similar
(Top) Hit
BLAST E
Value | 9.0E-11 | 9.0E-11 | 9.0E-11 | 9.0E-11 | 9.0E-11 | 9.0E-11 | 9.0E-11 | 9.0E-11 | 8.0E-11
 | 8.0E-11 | 8.0E-11 | 7.0E-11 | 7.0E-11 | 7.0E-11

 | 7.0E-11 | 6.0E-11 | 6.0E-11
 | 6.0E-11 | 6.0E-11 | 5.0E-11 | 5.0E-11 | 5.0E-11 | 5.0E-11
 | 5.0E-11 | 5.0E-11 | 4.0E-11
 | 4.0E-11 | 4.0E-11 | 4.0E-11 | 4.0E-11/
 | 4.0E-11 BE149425 |
| Expression
Signal | 1.2 | 5.43 | 5.43 | 2.25 | 2.25 | 1.09 | 4 | 2.69 | 9.97
 | 0.83 | 4.03 | 2.11 | 2.55 | 1.22

 | 1.31 | 5.16 | 5.16
 | 3.58 | 6.49 | 0.92 | 1.48 | 1.49 | 1.69
 | 14.59 | 1.79 | 1.4
 | 8.45 | 1.37 | 2.94 | 3.66
 | 1.59 |
| ORF SEQ
ID NO: | | 21843 | 21844 | 23064 | 23065 | | | 25312 |
 | 23580 | 23641 | 21202 | 27020 |

 | | 20180 | 20181
 | 26568 | 26945 | 19788 | 19788 | 23811 | 25954
 | 26472 | 23072 |
 | 22514 | 24196 | 25927 |
 | |
| Exen
SEQ ID
NO: | | | 11947 | 13257 | | | 15342 | 19062 | 13005
 | 13792 | 13865 | 11336 | 16827 | 17723

 | 19145 | 10352 | 10352
 | 16388 | 16750 | 2665 | 2666 | 14035 | 15831
 | 16307 | 18780 | 11285
 | 12622 | 14411 | 15803 | 16225
 | 17272 |
| Probe
SEQ ID
NO: | 261 | 2057 | 2057 | 3337 | 3337 | 4400 | 5421 | 9410 | 3078
 | 3881 | 3957 | 1431 | 6949 | 7873

 | 9545 | 406 | 406
 | 6229 | 6871 | = | 3320 | 4135 | 2926
 | 6446 | 8975 | 1380
 | 2760 | 4518 | 5897 | 6362
 | 7405 |
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Top) Hit Top Hit Acession Top Hit Acession NO: Signal (Top) Hit Top Hit Acession Database 10226 20042 1.2 9.0E-11 BE145600.1 EST HUMAN 11947 21844 5.43 9.0E-11 AL134395.1 EST HUMAN 13257 23064 2.25 9.0E-11 AL134395.1 EST HUMAN 13257 23065 2.25 9.0E-11 AL134395.1 EST HUMAN 13257 23065 2.25 9.0E-11 AL134395.1 EST HUMAN 15342 2.25 9.0E-11 AAL134395.1 EST HUMAN 15342 2.26 9.0E-11 AAT75985.1 EST HUMAN 15005 2.25 9.0E-11 AAT75985.1 EST HUMAN 15005 2.59 9.0E-11 AAT75985.1 EST HUMAN 13792 23580 0.83 8.0E-11 AI478617.1 EST HUMAN 13365 23641 4.03 8.0E-11 | Exon No: ORF SEQ ID NO: Expression Signal (Top) Hit Top Hit Acession No: Top Hit Acession Source No: Top Hit Acession No: <td>Exon ORF SEQ Expression (Top) Hit Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Source No. Top Hit Acession No. Top Hit</td> <td>Exon Signal Most Similar (Top) Hit Acession NO: CRF SEQ Signal Signal Fop Hit Acession No: Top Hit Acession Signal No: Top Hit Acession Signal No: Top Hit Acession Source No: Top Hit Acession Source No: Top Hit Acession No: Top Hit Aces</td> <td>Exon Signal Most Similar (Top) Hit Acession NO: Most Similar Signal Top Hit Acession NO: Top Hit Acession Signal Top Hit Acession Source Native Source No: Top Hit Acession Source Native Source No: Top Hit Acession Source Source Native Source Source Native Native Source Native Source Native Nat</td> <td>Exon Signal Most Similar (Top) Hit Acession NO: Most Similar Signal Top Hit Acession NO: Top Hit Acession Signal Top Hit Acession Source No: Top Hit Acession Source No: Top Hit Acession Source No: Top Hit Acession Source Source No: Top Hit Acession No: Top</td> <td>Exon Signal Most Similar (Top) Hit Acession No. Most Similar Signal Top Hit Acession Patches Top Hit Acession Source NO: Signal Signal (Top) Hit Acession Value (Top) Hit Acession No. Database Source 10226 20042 1.2 9.0E-11 BE145600.1 EST HUMAN 11947 21843 5.43 9.0E-11 AL134395.1 EST HUMAN 13257 23064 2.26 9.0E-11 AL134395.1 EST HUMAN 13257 23065 2.25 9.0E-11 AL134395.1 EST HUMAN 13257 23065 2.26 9.0E-11 AL134395.1 EST HUMAN 15062 24079 1.09 9.0E-11 AL134395.1 EST HUMAN 15062 25312 2.69 9.0E-11 AA775985.1 EST HUMAN 15062 25312 2.69 9.0E-11 AA73695.1 EST HUMAN 13792 23580 0.83 8.0E-11 AA330642.1 EST HUMAN 13762 23581 4.03 8.0E-11 AA330642.1 EST HUMAN 16827 27020 2.11 7.0E-11 AA330642.1 EST HUMAN</td> <td>Exon ORF SEQ Expression Signal (Top) Hit Top Hit Accession No. Top Hit Accession Signal Top Hit Top Hit Accession Source Nalue Top Hit Top Hit Accession Source Source Nalue 10226 20042 1.2 9.0E-11 BE145600.1 EST HUMAN Source Source Source Nalue 11947 21843 5.43 9.0E-11 AL134395.1 EST HUMAN Source S</td> <td>Exon ORF SEQ Expression Signal (Top) Hit Top Hit Accession No. Top Hit Accession Signal Top Hit Top Hit Accession Signal Top Hit Top Hit Accession Source Native Top Hit Top Hit Accession Signal Expression No. Top Hit Accession Signal Top Hit Accession Source Native Top Hit Accession Source Source Native Top Hit Accession Source Native Top Hit Accession Source Native Top Hit Accession Source Source Source Native Top Hit Accession Source Source Source Source Source Source Native Top Hit Accession Source Source Source Source Source Source Source Native Top Hit Accession Source Sourc</td> <td>Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Source Source Signal Top Hit Acession No. Top Hit Acession Source Source Source Signal Top Hit Acession Source Source No. Top Hit Acession Source No. Top Hit Acession Source /td> <td>Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession Signal Top Hit Acession Source Source Signal Top Hit Acession Source Source Source Source Source Source Source Source Aces Source</td> <td>Exon No: Signal No: No: Signal No: No: No: No: No: No: No: No: No: No:</td> <td>Exon
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Table 4
Single Exon Probes Expressed in Heart

יייייייייייייייייייייייייייייייייייייי	Expression ID NO:Most Similar SignalTop Hit Acession No.Top Hit Acession No.Top Hit Acession No.Top Hit Acession SourceTop Hit Descriptor Source		21245 2.15 3.0E-11 6679077 NT	1.45 3.0E-11 AA309248.1 EST HUMAN	20716 1.58 2.0E-11 AN50502.1 EST HUMAN	20926 3.64 2.0E-11 R24807.1 EST HUMAN	20927 3.64 2.0E-11 R24807.1 EST_HUMAN	21359 3.91 2.0E-11 L17432.1 NT	21360 3.91 2.0E-11 L17432.1 NT	27365 1 04 2 0E-11 A198371 1 EST LIMAN	22493 1.11 2.0E-11 AF087913.1	22889 4.23 2.0E-11 P10263 SWISSPROT	23006 0.87 2.0E-11 AI478617.1 EST HUMAN	0.95 2.0E-11 AF020503.1 NT	0.97 2.0E-11 AL163227.2	5.46 2.0E-11 BE062558.1 EST HUMAN	24604 1.32 2.0E-11 AA307331.1 EST HUMAN	25828 1.83 2.0E-11 AA581028.1 EST_HUMAN	1.43 2.0E-11 AF029308.1 NT	27989 4.61 2.0E-11 Q13606	28591 2.07 2.0E-11 AA035369.1 EST HUMAN	28592 2.07 2.0E-11 AA035369.1 EST HUMAN	1.29 2.0E-11 AA704195.1 EST HUMAN	2.25 2.0E-11 AW842143.1 EST HUMAN	25356 1.98 2.0E-11 BF377859.1 EST HUMAN	LN
	ORF SEQ ID NO:		21245			20926	20927	21359	21360	21365	22493	22889	23005				24604	25828		27989	28591	28592			25356	
	SEQ ID NO:		11381	9 14079	4 10869	8 11080	11080	6 11500	6 11500	11505		13085	13205	13368	14395	14732	14836	15715	17194	17750	18330	18330	19679	18927		
	Probe SEQ ID NO:	9611	1476	4179	944	1168	1168	1596	1596	1600	2737	3160	3284	3452	4501	4851	4961	5810	7318	7900	8457	8457	9160	9192	9216	0477

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Most Similar Top Hit Acession Signel BLASTE No. Source Value L.2.38 2.0E-11 P08547 SWISSPROT 2.38 2.0E-11 T1417966 NT T1417966 NT T.2.4 1.0E-11 AL131016.1 NT T.3.2 1.0E-11 AL13279.2 NT T.3.2 1.0E-11 AL13279.2 NT T.3.2 1.0E-11 AL13279.2 NT T.3.2 T.0E-11 BF36519.1 EST HUMAN T.3.2 T.0E-12 AL163300.2 NT T.2.2 SuE-12 AL163300.2 NT T.2.2 SuE-12 AL163300.2 NT T.2.2 SuE-12 AL163300.2 NT T.3.2 T.0E-12 AL163300.2 NT T.3.2 T.0E-12 AL163300.2 NT T.3.2 T.0E-12 AL163300.2 NT T.3.3 T.0E-12 AL163300.2 NT T.3.4						_				_										_							_			_	_					
Exon ORF SEQ ID Expression or Top) Hit Accession Most Similar (Top) Hit Accession Top Hit Accession<	pes cypressed iii near	Top Hit Descriptor	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC1412) mRNA	Homo saplens SCL gene locus	Homo sabiens chromosome 21 segment HS24Cn70	Homo sapiens PRO3078 mRNA commise eds	Homo saplens homogentisate 1.2-dioxydenase gene complete cds	CMo-BN0105-170300-292-412 BN0105 Homo saniens CDNA	Homo sapiens chromosome 21 segment HS21Cn47	Homo sapiens PHD finger profelin 2 (PHF2) mRNA	W73d08.r1 Soares Infant brain 1NIB Homo saniens of NIA close IMA CElegates Fi	10V4-NN1149-250900-423-503 NN1149 Home seniers CINIA	0V4-NN1149-250900-423-and NN1449-Home continue	602154807F1 NIH MGC 83 Home sanions CONA clara MACE 4205637 F1	HSAAACADH P Human fretai Brain Whole ties in Dann project Chila	PREGNANCY ZONE PROTEIN PRECIENCE	Homo sapiens chromosome 21 segment HS21C100	Homo sapiens chromosome 21 segment HS24C100	Homo saplens Xa oseudoa ribsomal region, segment 2/2	34 KD SPICULE MATRIX PROTEIN PRECLIPSOR (1 SMAX)	223401.51 Soares fetal liver spleen 1NEIS St Homo continue child aleccitive continue	AV730554 HTF Homo sapiens cDNA cone HTFAWF0R 5	nz88f11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1302573 3' similar to contains Alu	Morone saxatilis myosin heavy chain FM3A (FM3A) mRNA complete of	od10g11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1367588 similar to contains MER29.12	MER29 repetitive element;	EST04462 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBDV33	1242b05.y1 NCI_CGAP_Bm52 Home saplens cDNA clone IMAGE 2291217 F	Homo sapiens Xq pseudoautosomal region: segment 2/2	Inv24b11.s1 NCI OGAP GCB0 Homo sapiens cDNA clane IMAGE-1241972 91	Homo sapiens chromosome 21 segment HS21C078	Homo sapiens chromosome 21 segment HS21Cn78	EST386850 MAGE resequences, MAGN Homo saniens CDNA	Homo saplens Xq pseudoautosomal region; segment 1/2	
Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acess No. 19201 ID NO: Signal Signal PLASTE No. 19201 2.38 2.0E-11 Po8547 19504 2.38 2.0E-11 Po8547 110594 2.0412 1.24 1.0E-11 AL16379.2 11109 2.0954 2.68 1.0E-11 AL163279.2 11109 2.0954 2.68 1.0E-11 AL163270.2 1138B 2.014 1.24 1.0E-11 AL163270.2 1139B 2.0540 3.25 1.0E-11 BE36519.1 17109 2.7300 1.32 1.0E-11 BE36519.1 17709 2.7301 1.32 1.0E-11 BE36519.1 17709 2.7301 1.32 1.0E-11 BE36519.1 17491 2.7712 1.29 1.0E-11 BE36519.1 1749B 2.7500 1.32 1.0E-11 AL16330.2 17491 2.7712 1.29 1.0E-11 AL16330.2 17491 2.7712 1.29 1.0E-11 AL16330.2 14451 2.7721 1.29 1.0E-11 AL16	פום באסוו ויוס	Top Hit Detabese Source	SWISSPROT	Į.	TN	N	k	TN	EST HUMAN	LN LN	NT TH	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	SWISSPROT	L'N	N L	LN.	SWISSPROT	EST HUMAN	EST HUMAN	EST HIMAN	L		EST_HUMAN	EST HUMAN	EST_HUMAN	F	EST HUMAN	12	シ	EST_HUMAN	NT	
Exon SEQ ID NO: ORF SEQ Expression (T) Signal ID NO: Mose Signal ID NO:	5		208547	·		4L163279.2	AF119914.1	AF000573.1	3E004315.1	AL163247.2		ŀ	9.1	9.1	8.1			2.2	2,5	-							8.1 ·	1		1.						
Exon ORF SEQ Expres SEQ ID NO: Sign NO: 19201 19201 19201 19201 19201 19201 19640 11109 2014 11109 2014 11109 2017 11100 1		Most Similar (Top) Hit BLAST E Value	2.0E-11	2.0E-11	1.0E-11	1.0E-11/	1.0E-11/	1.0E-11	1.0E-11	1.0E-11	1.0E-11	1.0E-11	1.0E-11	1.0E-11	1.0E-11	1.0E-11	9.0E-12 F	9.0E-12	9.0E-12	8.0E-12	7.0E-12	7.0E-12	6.0E-12	6.0E-12.A	8.0E-12		6.0E-12	5.0E-12 T	5.0E-12	5.0E-12 A	5.0E-12	5.0E-12	5.0E-12	5.0E-12 A	5.0E-12	
Exon ORI NO: DRI NO: D		Expression Signal	2.38	2.38	1.24	2.68	1.94	3.12	1.32	14.34	3.25	5.41	1.32	1.32	1.9	1.29	0.82	1.22	1.22	3.57	2.75	11.23	0.92	7.85	1.19	,	1.86	2.88	1.18	5.93	0.84	4.75	4.75	9.12	2.15	
"""		ORF SEQ ID NO:								24966				27301	28747		22649	27712	27713		24241	28828		23925	27263			20790	23070	23367		25676	25677	25940	27339	
Probe SEQ ID NO: 0827 9930 680 11483 1483 7733 7733 8656 9270 9270 9270 1027 7201 7201 7201 7201 7201 7201 7		Exon SEQ ID NO:	19201	19401	10594	11109	11388	11969	13370	15191	16652	16866	17109	17109	18474	19483	12849	17491	17491	18974	14454	18545	13417	14151	17078	47060	707	2	13264	13280	15037	15578	15578	15815	17145	
		Probe SEQ ID NO:	9627	9930	999	1199	1483	2079	3454	5269	6773	6869	7232	7232	8607	9702	2922	7641	7641	9270	4562	8656	3500	4252	7201	7459	1405	1020	3344	3998	5171	2992	2995	2909	7268	

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Single Extri Probes Expressed in Hear	Most Similar Top Hit Acession Database Top Hit Descriptor Source Source		4.0E-12 AA700326.1 EST_HUMAN	4.0E-12 AA700326.1 EST HUMAN	4.0E-12 AI689984.1 EST_HUMAN	4.0E-12/AF109907.1 NT	4.0E-12 AJ229043.1 NT	4.0E-12 U78027.1 NT	3.0E-12 AW341683.1 EST_HUMAN	3.0E-12 AW341683.1 EST HUMAN	3.0E-12 U37672.1 NT	3.0E-12 U37672.1 NT	2.0E-12 6754495 NT	2.0E-12 J01884.1 NT	2.0E-12 J01884.1 NT	8 2.0E-12 BE063509.1 EST_HUMAN CM0-BT0281-031199-087-403 BT0281 Homo saplens cDNA	2.0E-12 070306 SWISSPROT	2.0E-12 070306	2.0E-12 AW971857.1 EST_HUMAN	2.0E-12 T08169.1 EST_HUMAN	2.0E-12 11422229 NT	2.0E-12 AF196864.1 NT	2.0E-12 BE165980.1 EST_HUMAN	2.0E-12 AL163283.2 NT	2.0E-12 11418248 NT		1.0E-12 AW627674.1 EST HUMAN	1.0E-12 AI871726.1 EST_HUMAN	6 1.0E-12[AF000991.1 NT Homo sapiens testis-specific Testis Transcript Y 2 (TTY2) mRNA, partial cds
	Most Similar (Top) Hit BLAST E Value	5.0E-12	4.0E-12	4.0E-12	4.0E-12	4.0E-12	4.0E-12	4.0E-12	3.0E-12	3.0E-12	3.0E-12	3.0E-12	20E-12	2.0E-12	2.0E-12	2.0E-12	20E-12	2.0E-12	2.0E-12		2.0E-12	2.0E-12	2.0E-12	2.0E-12	2.0E-12		1.0E-12	1.0E-12	1.0E-12
	Expression Signal	4.67	3.42	3.55	0.85	2.89	3.51	1.9	3.81	3.81	3.08	3.08	1.03	1.04	1.04	1.8	0.78	0.78	. 2.22	3.34	2.07	1.68	8.13	1.71	1.52	,	1.82	2.03	1.16
	ORF SEQ ID NO:			20027	24198		28561		20345	20346	28187	28188	23143	23704	23705			24474		-	26552					İ	19914		22752
	Exan SEQ ID NO:	17745	10211	10211	14413	16676	18305	19131	10536	10536	17938	17938	13338	13928	13928	14221	14688	14688	15804	16124	16375	17345	17587	18916	19041	10007	2002	11839	12960
İ	Probe SEQ ID NO:	2882	244	245	4520	6797	8431	9520	909	009	8047	8047	3421	4025	4025	4324	4804	4804	5898	6258	9516	7367	7737	9175	9377	,		1944	3032

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l able 4 Single Exon Probes Expressed in Heart	Top Hit Descriptor		Homo sapiens testis-specific Testis Transcript V 3 / TTV 21	AU132248 NT2RP3 Homo sabiens cONIA ALL NEGOTO MRNA, partial cds	AU132248 NT2RP3 Homo saniens CONA clans NI 2RP3004070 5'	Homo sapiens ataxis felandicatoric (ATT).	HYPOTHETICAL ZINC FINGER PROTEIN KIAA0981	norno saptens putative BPES syndrome breat/coint region protein gene, complete cds qh66a04.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo saptens cDNA clone IMAGE:1849814.3' similar to	repetitive element; qh66a04.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo services_CNAA	SM19503 LINE-1 REVERSE TRANSCRIPTASE HOMOLOG (HUMAN) contains MEDIA 4.3 similar pelifits element.	26005 of Statement, The Statement of Stateme	EST374227 MAGE: 60/81y (#837217) Hamo sapiens cDNA clone IMAGE: 857577 21	PROBABLE TONE DEDENDENT THE SEPTEMBERS CONA	M.setulosus mitochondrial 129 - BNA	Homo sapiens Xd pseudosufracomal	mo saplens CST dens for cases.	za26b06.s1 Soares fetal liver and an annual stress, exon 1, 2, 3, 4, 5	Homo sapiens prior profein (P.D)	Homo septiens priori (* 11.7) gene, complete cds Homo septiens priori (* 1779) gene, complete cds Homo septiens basic frames rivities (* 1	protein (naip) and survival motor neuron protein (smn) genes, complete cds, neuronal apoptosis Inhibitory Homo saplens Bruton's transitional motor in the complete cds	(L44L) and FTP3 (FTP3) genes, complete cds	Human germline T-cell receptor beta chain TCRBV13S1, TCRBV6S842T TCBNV73SA2T TCBNV73SA2T TCBNV73SA2T TCBNV73SA3T TCBNV75SA3T T	TCRBV6S6A21, TCRBV6S9P, TCRBV13S8P, TCRBV13S8P, TCRBV6S3A1N11, TCRBV6S2,	ICRBV33S1A2T, TCRBV12>	POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEINJIND) ACETYLGALACTOSAMINYLTRANSFERASE (PROTEINJIND)	ACETYLGAI ACTOSAMINY TEANSFERASE) (UDP-GALNAC:POLYPEPTIDE N.	Homo sepiens chromosome 21 segment HS21C007
ı ingle Exon Prob	Top Hit Database Source				T_HUMAN	Γ	SWISSPROT		EST_HUMAN	EST HUMAN (re	Т	Т	Т				T_HUMAN				NT (L4	E C		HIMAN		/ISSPROT	
S	Top Hit Acess No.	1 0F.12 A E000004	4 0E 42 A 14000 6 4	42 AU 132248.1	1.0E-12/AU132248.1	1.0E-12/U82828.1	1.0E-12 AF196864.1	1 OE-40 Aloverse	12 A1246533.1	1.0E-12 AI248533.1	1.0E-12 AA782323.1	1.0E-12 AW962164.1	1.0E-12 P44836		5.1	20.1					o.uc-13 U/8027.1		8.0E-13 U66060 1	1.7			6.0E-13/AL163207.2 NT
	Most Similar (Top) Hit BLAST E Value	10F	1 19		1	<u> </u>	1. P. P.	<u>-</u>		1.0E-1	- -		1.0E-1	1-01-1	8.0E-1	9.00	9.00-T	0.05-1	0.UE-13	51-70.0	o.ue-13		8.0E-13	7.0E-13		7.0E-13 Q10473	6.0E-13
	Expression Signal	1.16				287	1.72	0.11		9.11	1.31	3.36	277	1 43	1 48	28.6	5.05	20.5	39 6	2 2		_	2.49	10.33		1.33	16.51
	ORF SEQ ID NO:	22753	23496	23497			26240	26256		70707	20148	01 107	\dagger		23570		20458	20459	21570		-		29079	+		21840	200
	Exan SEQ ID NO:			13710	15544	15591	16090	16106	90,00	16928	18860	19728	19426	13489	13776	17388	10633	10633	11694	17688	_		18789	19149	19287	11944	
	Probe SEQ ID NO:	3032	3798	3798	5630	5682	6224	6240	6240	7054	9085	9605	5963	3575	3865	7537	200	700	1796	7838			8984	\perp	9768		ł

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Probe SEQ ID NO: 33280 3351 8234 1824 1824 1824 2411 5430 6601 8601 8601 8601 8601 876 8876 8876 8876 8876 8876 8876 8876	SEC ID S	ORF SEQ ID NO: ID NO: ID NO: 28367 2845 2845 2845 2845 2845 2845 28845 28845 28845 28845 28845 28846 28880 28850 28980 21005 22099	Signal Signal 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Top Hit Acess No. No. No. R78338.1 AA435773.1 AP07313 AW378614.1 AF003529.1 A4436819.1 A4436819.1 A4436819.1 A4436819.1 A4436819.1 A4436819.1 A745841.1 A745844.1 A745844.1 A745844.1 A745848.2 S2111.2 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1 S28710.1	TOP HIT Database Source Source Source Source Source Source Source ST HUMAN SWISSPROT ST HUMAN ST ST HUMAN ST S S S S S S S S S S S S S S S S S S	Single Exon Probes Expressed in Heart
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Table 4
Single Exon Probes Expressed in Heart

•			7	-	-		_				_	-										_		
	Top Hit Descriptor	xf67e10 xf NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2623146 3' similar to contains MER10.t2 MER10 repetitive element;	Homo sapiens FRA3B common fracile rection, diadenosine trinhosnhate hutrologe (EUIT), sono	Homo sapiens hypothetical protein P. J.20585 / Fl. J.20585 / mRNA	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene. exon 5	Homo sapiens FRA3B common fradile region. cladenosine frinhosnhate hurtrolace (EUIT) and the same to t	CANALICULAR MULTISPECIFIC ORGANIC ANION TRANSPORTER (MULTIDRUG RESISTANCE- ASSOCIATED PROTEIN 2) (CANALICULAR MULTIDRUG RESISTANCE PROTEIN)	xb03b05.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2575185 3' similar to contains L1.t2 L1 repetitive element	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	S-ANTIGEN PROTEIN PRECURSOR	Homo sapiens LGMD2B gene	zk67a06.r1 Soares pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE: 487858 5	W73c12.s1 Scares_multiple_sclerosis_2NbHMSP Homo septens cDNA done IMAGE:279190 3' similar to contains L1.13 L1 repetitive element;	wm08c03.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2435332 3' similer to contains Alu repetitive element:	R.norvegicus mRNA for CPG2 protein	xp45f12.xf NCI_CGAP_HN11 Homo saplens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element contains element MFR9 repositive element.	Homo sapiens a disintegrin and metalloproteinase domain 29 (ADAM29) mRNA	tw84f11.xf NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:3195501 3' similar to contains MER4.b2 MER4 receitive element:	CIRCUMSPOROZOITE PROTEIN PRECURSOR (CS)	xp45f12x1 NCI_CGAP_HN11 Homo sapiens cDNA clone IMAGE:2743343 3' similar to contains Alu repetitive element contains element MFR9 renefiting element.	Homo sapiens Xa pseudoantosamal region serment 2/2	Homo sapiens Xg pseudoautosomal region; segment 2/2	Homo sapiens chromosome 21 segment HS21C103
	Top Hit Database Source	EST_HUMAN	Ę	LN	LN.	ŢN	FZ.	SWISSPROT	EST HUMAN	SWISSPROT	SWISSPROT	LN TN	EST HUMAN	EST_HUMAN	EST HUMAN	LN	EST HUMAN		EST HUMAN	SWISSPROT		T		LN.
	Top Hit Acession No.	7.0E-14 AW151673.1	AF020503.1	8923548 NT	8923548 NT	AF020503.1	6.0E-14 AF020503.1	263120	4W073791.1	1		3.1	VA046502.1	446328.1	_		1.1	3864	72.1		3.0E-14 AW265354.1			2.0E-14 AL163303.2
	Most Similar (Top) Hit BLAST E Value	7.0E-14.	6.0E-14 AF02050	6.0E-14	6.0É-14	6.0E-14 AF02050	6.0E-14	5.0E-14 Q63120	5.0E-14 AW0737	5.0E-14 P08547	4.0E-14 P04928	4.0E-14 AJ00797;	4.0E-14 AA04650	4.0E-14 N46328.1	4.0E-14 A1886224	3.0E-14 X95466.1	3.0E-14 AW26535	3.0E-14	3.0E-14 BE46637;	3.0E-14 P02894	3.0E-14 A	2.0E-14 A	2.0E-14 A	2.0E-14
	Expression Signal	3.07	10.2	1.02	1.02	2.56	2.56	3.92	1.09	5.12	1.77	6.5	0.94	1	2.31	2.13	0.82	1.1	1.23	1.5	7.59	3.98	3.98	6.35
	ORF SEQ ID NO:			24758	24757	27725	.27728	20348	24628	25363		21608		23873		20705	24505	24507		24791	24505	20154	20155	20428
	Exan SEQ ID NO:	12699	10319	14982	14982	17502	17502	10538	14860	15316	12685	11732	13607	14094	19760	10859	14722	14725	14972	15024	14722	10331	10331	12673
	Probe SEQ ID NO:	1611	363	5114	5114	7652	7652	602	4985	5397	1107	1835	3693	4194	7776	934	4841	4844	5104	5157	8563	384	384	675

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Single Exon Probes Expressed in Heart

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	T	7	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	_	Т	Т	7	7	7	7=	T	T.			Т-
Top Hit Descriptor	xn77d02.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2700483 3' similar to contains THR.t2 THR repetitive element:	Homo sapiens Xq pseudoautosomal region: segment 2/2	QV1-LT0036-150200-070-c10 LT0036 Homo sapiens cDNA	nab81c12.x1 Soares, NSF F8 9W OT PA P S1 Homo sabiens cDNA clone IMAGE: 3	Homo saplens chromosome 21 segment HS21C008	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene. RoRet gene. and sodjum phosphate transporter (NDT3) pages protein the complete.	UH-BW0-aib-a-10-0-UI st NCI CGAP Surb Homo earjons (N. 1-2) gene, cusping our	AV730056 HTF Homo sepiens cDNA clone HTFAVENS 5	Homo sapiens chromosome 21 segment HS21C103	DKFZb761C0810 r1 761 (synonym: harny2) Homo saniens cDNA close DKEZb-761C0840 E	Homo saplens mRNA for transcription factor	Homo sapiens mRNA for transcription factor	LY1142F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone LY1142 5' similar to ANF(CARDIONII ATIN)	NADH-UBIOUINONE OXIDOREDI ICTASE CHAIN &	7P01F03 Chromosome 7 Placental aDNA I library Homo saniens ADNA class 7004502	7P01F03 Chromosome 7 Placental cDNA Library Homo sepiens cDNA clone 7P01F03	Mus musculus ultra high sulfur keratin gene, complete cds	Mus musculus ulba high sulfur keratin gene, complete cds	oc36a07.s1 NCI_CGAP_GCB1 Hamo sapiens cDNA clone IMAGE:1351764 3' similar to contains MER19.t1 MER19 repetitive element;	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens calcium charnel alpha1E subunii (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced.	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA
Top Hit Database Source	EST HUMAN	LN LN	EST HUMAN	EST_HUMAN		ŢN	EST HUMAN	EST HUMAN	IN.			N	FST HIMAN	SWISSPROT	EST HUMAN	EST HUMAN	L	LN.	EST_HUMAN	K	LN TN	IN	F	LN
Top Hit Acession No.	AW241958.1	AJ271736.1	AW836843.1	BF432200.1	AL163208.2	J91328.1	AW296817.1	AV730056.1	4L163303.2	4L118596.1	4J130894.1	4,3130894.1	V89452 1	92485		+		M27685.1	14807128.1	\B026898.1	AF223391.1	.1	NF223391.1	8923201 NT
Most Similar (Top) Hit BLAST E Value	7.0E-15	6.0E-15	6.0E-15	6.0E-15	5.0E-15	5.0E-15	6.0E-16	5.0E-15	4.0E-15	4.0E-15	4.0E-15	4.0E-15	3.0E-15	3.0E-15	3.0E-15/	3.0E-15	3.0E-15	3.0E-15	3.0E-15	3.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15
Expression Signal	2.83	6.12	1.86	1.57	5.79	1.38	+	2.22	2.6	0.78	2.38	2.38	5.93	1.41	0.88	0.88	2.86	2.86	1.87	271	3.29	3.23	3.23	1.14
ORF SEQ ID NO:		20748			2	22490			19779	23720					24599		26335	26336		28311	20033	20141	20142	
Exon SEQ ID NO:	17813	10901		1 1	10350	12595	13340	17954	9988	13942	16438	16438	14023	14724	14832	14832	16177	16177	17559	18061	10216	10320	10320	11417
Probe SEQ ID NO:	7963	978	8622	8948	404	2733	3423	8063	421	4039	8414	8414	4123	4843	4955	4955	6314	6314	7709	8173	250	364	364	1512
	Exon SEQ ID NO: Signal ASTE No. Source	Exon SEQ ID NO: Signal BLASTE No. Source Source No. 17813 2.83 7.0E-15 AW241958.1 STD Hit Acession Source S	Exon SEQ ID NO: ORF SEQ Signal Signal NO: Expression Top) Hit Signal No: Most Similar Top) Hit No. Top Hit Acession No. Top Hit Source Source 17843 2.83 7.0E-15 AW241958.1 EST HUMAN INT	Exon SEQ ID NO: ORF SEQ ID NO: Expression Signal NO: Most Similar Top Hit Acession Value Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source 17843 2.83 7.0E-15 AW241958.1 EST HUMAN E-15 AJ271736.1 INT 19770 20748 6.12 6.0E-15 AW36843.1 EST HUMAN EST HUMAN	Exon SEQ ID NO: ORF SEQ ID NO: Expression Signal No: Most Similar Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession Source 17813 2.83 7.0E-15 AW241958.1 EST_HUMAN BG-15 AJZ71736.1 INT 19770 1.86 6.0E-15 AW36843.1 EST_HUMAN BTHUMAN BG-15 AW36863.1 EST_HUMAN BST HUMAN BG-15 AW36863.1	Exon SEQ ID NO: ORF SEQ Signal Signal Expression TOP) Hit PLASTE Value TOP Hit Acession No. Top Hit Acession Source Top Hit Acession Source 17813 2.83 7.0E-15 AW241958.1 EST_HUMAN 19770 1.86 6.0E-15 AW2836843.1 EST_HUMAN 19415 1.57 6.0E-15 AW28308.3 EST_HUMAN 10350 20177 5.79 5.0E-15 AL163208.2 NT	Exon SEQ ID NO: ORF SEQ Signal NO: Most Similar Top Hit Acession Signal NO: Most Similar Top Hit Acession No: Top Hit Acession Source Noice Top Hit Acession No: Top Hit Aces	Exon SEQ ID NO: ORF SEQ Signal No: Most Similar Top Hit Acession Signal No: Top Hit Acession No: Top Hit Acession Signal No: Top Hit Acession No:	Exon No: ORF SEQ ID NO: Expression Signal No: Top Hit Acession No:	Exon No: ORF SEQ ID NO: Expression Signal No: Top Hit Acession No:	Exon NO: ORF SEQ ID NO: Expression Signal Top Hit Acession Plants Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession Source 17813 2.83 7.0E-15 AW241958.1 EST_HUMAN 19770 1.86 6.0E-15 AW241958.1 EST_HUMAN 19770 1.57 6.0E-15 AW241958.1 EST_HUMAN 19550 20177 5.79 5.0E-15 AW241958.1 EST_HUMAN 10350 20177 5.79 5.0E-15 AL163208.2 NT 13840 1.38 5.0E-15 AW296817.1 EST_HUMAN 17954 2.22 5.0E-15 AW296817.1 EST_HUMAN 17954 2.22 5.0E-15 AV730056.1 EST_HUMAN 9988 19779 2.6 4.0E-15 AL163303.2 NT 43942 23720 0.78 4.0E-15 AL18590.1 EST_HUMAN	Exon No: ORF SEQ ID NO: Expression Signal No: Top Hit Acession Signal No: Most Similar Top Hit Acession No: Top Hit Acession Source Noise Top Hit Acession Source Noise Top Hit Acession Noise Top Hit Acession Source Noise Top Hit Acession Noise Top Hit A	Exon NO: ORF SEQ ID NO: Expression Signal Top Hit Acession Top) Hit National Top Hit Acession No: Top Hit Acession Value Top Hit Acession No: Top Hit Acession Source Top Hit Acession Source 17813 2.83 7.0E-15 AW241958.1 EST_HUMAN 19770 1.86 6.0E-15 AJ271736.1 NT 19415 1.57 6.0E-15 AJ271736.1 NT 19350 20177 5.79 5.0E-15 AL22200.1 EST_HUMAN 12595 22490 1.38 5.0E-15 AL163208.2 NT 13540 1.38 5.0E-15 AL163208.2 NT 13540 1.38 5.0E-15 AL163208.2 NT 13540 2.22 5.0E-15 AL163308.2 NT 13642 23720 0.78 4.0E-15 AL163308.2 NT 146438 26623 2.38 4.0E-15 AL185908.1 NT 16438 26624 2.38 4.0E-15 AL185908.1 NT 16438 26	Exon No: ORF SEQ Signal Signal No: Most Similar Top Hit Acession No: Top Hit Acession Signal No: Top Hit Acession Signal No: Top Hit Acession No: Top Hit Acession Signal No: Top Hit Acession No: Top Hit Acession Source No:	Exon No: ORF SEQ Signal Signal No: Most Similar Top Hit Acession No: Top Hit Acession No: Top Hit Acession Signal No: Top Hit Acession No: Top Hit Acession Source No: Top Hit Acession No:	Exon No: ORF SEQ ID NO: Expression Signal No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession Source Noil No: Top Hit Acession No: Top Hit Acessi	Exon No: ORF SEQ ID ID NO: Signal Signal Signal Signal Signal ID NO: Crop Hit Acession No: Top Hit Acession No: Top Hit Acession Signal No: Top Hit Acession No:	Exon NO: Signal ID NO: Most Similar Signal Top Hit Accession Value Top Hit Accession No. Top Hit Accession Signal Top Hit Accession Value Top Hit Accession No. Top Hit Accession Source Top H	Exon NO: Signal ID NO: Most Similar Signal Top Hit Acession Value Top Hit Acession No. Top Hit Acession Signal Top Hit Acession Value Top Hit Acession No. Top Hit Acession Signal Top Hit Acession Value Top Hit Acession No. Top Hit Acession Source 17813 2.83 7.0E-15 AV241958.1 EST HUMAN 19770 1.86 6.0E-15 AJ271736.1 NT 19770 20177 5.79 5.0E-15 AL163208.2 NT 13840 1.57 6.0E-15 AL163208.2 NT 17854 2.22 5.0E-15 AL163208.2 NT 13842 2.22 5.0E-15 AL183208.2 NT 13842 2.22 5.0E-15 AL183208.1 NT 14438 2.6623 2.38 4.0E-15 AL183303.2 NT 14623 2.6624 2.38 4.0E-15 AL183094.1 NT 14724 2.4589 0.88 3.0E-15 AL130894.1 NT 14832 24589 0.88 3.0E-15	Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession Source Nation Top Hit Acession Source Signal (Top) Hit Acession No. Top Hit Acession Source Signal (Top) Hit Acession No. Top Hit Acession Source Source Nation Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source Nation Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source Nation Top Hit Acession No. Top Hit Acession No. Top Hit Acession Source Nation Top Hit Acession No. Top Hit Acession Source Nation Top Hit Acession No. Top Hit Acession Source Nation Top Hit Aces Nation Top Hit Aces Nation Top Hit Aces Nation Top Hit Aces Nation Top Hit Aces Nation Top Hit Aces Nation	Exon No: CAF SEQ ID ID NO: Expression Signal Signal (Top) Hit Top Hit Acession No. Top Hit Acession Source Note: Top Hit Acession Source Source Note: Top Hit Acession Source Note: Top Hit Acession Source Source Note: Top Hit Acession Source Note: Top Hit Acession Source Source Note: Top Hit Acession Source Note: Top Hit Acession Source Source Note: Top Hit Acession Source Note: Top Hit Ace	Exon NO: ORF SEQ ID NO: Expression Signal Signal Most Similar HLASTE FILE Top Hit Acession No. Top Hit Acession Source Value Top Hit Acession Source Top Hit Acession Source 17813 2.83 7.0E-15 AW241958.1 EST HUMAN 19770 1.86 6.0E-15 AW241958.1 EST HUMAN 10950 20748 6.12 6.0E-15 AW241958.1 EST HUMAN 10350 20177 5.79 5.0E-15 AW241958.1 EST HUMAN 17854 2.22 6.0E-16 AW26843.1 EST HUMAN 17854 2.22 6.0E-16 AW26817.1 EST HUMAN 17854 2.22 6.0E-16 AW268817.1 EST HUMAN 16438 2.6623 2.38 4.0E-16 AL183508.1 NT 16438 2.6624 2.38 4.0E-16 AL18368.1 NT 16438 2.6624 2.38 4.0E-16 AL18368.1 NT 16438 2.6624 2.38 4.0E-16 AL18368.1 NT 16432 2.4600 0.88 3.0E-16 AA078097.1 EST HUMAN 16477 2.636	Exon NO: 100: 100: 100: 100: 100: 100: 100: 10	Exon NO: ID NO: ID NO

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Table 4
Single Exon Probes Expressed in Heart

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migra Event Force Expressed III I I I I I I I I I I I I I I I I I	Top Hit Descriptor	Homo sepiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	wf07f06.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2349923 3' similar to TR:Q61043 Q61043 NINEIN	REPETITIVE PROFINE RICH CELL WALL DEOTEN 2 BBE CHESCH	REPETITIVE PROLINE-RICH CELL WALL PROTEIN 2 PRECURSOR	Homo sapiens ASCL3 gene, CEGP1 gene, C11orf14 gene, C11orf15 gene, C11orf16 gene and C11orf17	277603.51 Spares fetal liver spleen 1NEI S St Home continue 17116.1	2278410.r1 Scares_fetal_lung_NbHz19W Homo sapiens cDNA clone IMAGE:298675 5' similar to	Human DNA SINE rapatitive alement	CM0-HT0244-201099-078-a12 HT0244 Home continue CNNA	CM0-HT0244-201099-078-812 HT0244 Hmm saniens -DNA	Homo sapiens Xa beaudosintesomal regim: squelis CDIVA	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	Homo seplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	to Zeho5.x7 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2270745 3' similar to TR:Q13539 Q13539 Q13539	hk40e02 vi NCI CGAP Ovad Umma emicro - PNIA - I II M OF ASSESSED	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG	RC3-HT0649-100500-022-b08 HT0849 Home contame - DNA	wr86e04.x1 NCI_CGAP_Kid11 Homo septients CDNA_clone INAACE:2302.500 21	ye40e10.s1 Soares fetal liver spleen 1NFLS Homo sapiens GDNA clone IMAGE:120234 3' similar to contains	OV3-BTD569-27010-074-06 BTD560 H	Homo sepiens chromosome 24 segment Disologo	df68h06 xf Scares beste NHT Hams contact This contact the contact that the contact the contact that the contact the contact that the contact t	G68H06.X1 Soares testis NHT Homo semiens CDNA clone IMAGE:1755227 31	Homo sapiens spermidine synthase (SRM) mRNA
שום בערוי זיי	Top Hit Database Source	Į.	占	EST HUMAN	SWISSPROT	SWISSPROT	<u> </u>	EST HUMAN	EST HUMAN	L	EST HUMAN	EST HUMAN	LN	N FA	Į.	EST HUMAN	EST HUMAN	"~	EST HUMAN	EST_HUMAN	EST HIMAN	EST HIJMAN	Z	EST HUMAN	Т	4507208 NT
	Top Hit Acessian No.	2.0E-15 AF223391.1	2.0E-15 AF223391.1	2.0E-15 AI806335.1	P13993	P13993	AJ400877.1	2.0E-15 AA704195.1	2.0E-15 W05064.1	2.0E-15 D14547.1	2.0E-15 AW379465.1	2.0E-15 AW379465.1	AJ271735.1	2.0E-15 AF223391.1	2.0E-15 AF223391.1	5	7.7		3E182696.1	Al984928.1	185763 1		0.2			4507208
	Most Similar (Top) Hit BLAST E Value	2.0E-15	2.0E-15	2.0E-15	2.0E-15 P13993	2.0E-15 P13993	2.0E-15 AJ40087	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15	2.0E-15 AJ27173	2.0E-15	20E-15	1.0E-15 Al68998	1.0E-15 BE0435	1.0E-15 P08547	1.0E-15 BE1826g	1.0E-15 AI98492	1.0E-15 T95763	1.0E-15 BE07421	1.0E-15/	1.0E-15/	1.0E-15/	1.0E-15
	Expression Signal	1.04	1.04	2.07	1.33	1.33	1.71	2.2	6.13	2.72	1.26	1.26	3.01	222	2.22	1.84	0.8	0.99	9.0	1.15	1.83	1.96	1.28	4.57	4.57	1.44
	ORF SEQ ID NO:	23186	23187			24742		26331	26397	27232	27484	27485		23186	23187		22706	22825	23939	24731	25864		26862	26976	26977	27293
	Exon SEQ ID NO:	13381	13381	14415	14966	14966	16089	16173	16237	17040	17277	17277	18096	13381	13381	12809	12906	13029	14161	14956	15750	16068	16870	16783	16783	17104
	Probe SEQ (D NO:	3465	3465	4522	2097	2097	6223	8310	6375	7163	7410	7410	8212	9799	9799	2747	2979	3103	4262	5086	5844	6182	6791	6905	9069	7227

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Table 4
Single Exon Probes Expressed in Heart

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
8193	18079	28331	6.81		1.0E-15 AF044083.1	IN	Homo sapiens major histocompatibility locus class III region
9867	19492	25131	3.71	1.0E-15	AI783944.1	EST HUMAN	tr31c05.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2219912.3' similar to contains Alu repetitive element:
4404			1.03		9.0E-16 4503168 N	L	Homo sapiens cut (Drosonhila-like 1 (CCAAT disclosoment and interval) (2) 171 2
8361	18238		2.6			EST HUMAN	HSC23F051 normalized infant brain cDNA Home saniens cDNA characters.
6343	16206	26368	1.5	7.0E-16 O88807	088807	SWISSPROT	PROTEIN ARGININE DEIMINASE TYPE IV (PEPTIDYLARGININE DEIMINASE IV) (PAD-R4) (PEPTIDYLARGININE DEIMINASE TYPE AI PHA)
6343	16206	26369	1.5	7.0E-16 O88807	088807	SWISSPROT	PROTEIN-ARGININE DEIMINASE TYPE IN PEPTIDYLARGININE DEIMINASE IV) (PAD-R4)
9816	19585		6.8		7.0E-16 T94149.1	EST HIMAN	W SPC12 of Statements Line (HILLS)
2094	11983		8.32	6.0E-16	6.0E-16 AW972611.1	EST HUMAN	EST384702 MAGE resequences. MAGI. Homo sapiens cDNA
1477	11382	21246	1.09	5.0E-16	5.0E-16 AJ251154.1	LX	Mus musculus offactory recentor clineter OP278 OP279 OP279
2647	12514	22404	1.79	5.0E-16	5.0E-16 AA992178.1	FST HIMAN	ot80c04.s1 Sources_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623078 3' similar to
7784	17634	27867	1.69	5.0E-16	Γ	NT.	Homo saniens chromosome 27 sermont 1824.04
8809	18623	28914	3.33	5.0E-16	-	EST HUMAN	601885734F1 NIH MCC 57 Home conjune a DNA - 111 AC - 111
9904	19381		8.34	5.0E-16	18127		Homo sapiens GTP binding protein 1 (GTPBD4) DNA
2192	12079		1.27	4.0E-16	4.0E-16 AB001523.1	IN	Homo satiens gene for TMFM1 and PWP2 complete and noticed
2328	12209	22107	1.32	4.0E-16	<u></u>	EST HUMAN	QV1-UM0036-200300-115-002 (IM0036 Home services alto hai usi cos
2328	12209	22108	1.32	4.0E-16		EST HUMAN	QV1-UM0036-200300-115-002 UM0036 Homo saniens cDNA
3411	13328	23129	3.85	4.0E-16 Q16853		SWISSPROT	MYELIN-OLIGODENDROCYTE GLYCOPROTEIN PRECLIRSOR
4050	13852	23728	3.55	4.0E-16	1	[]	PM4-BT0650-010400-002-909 BT0650 Homo sapiens cDNA
1000	7085	23/29	3.55	4.0E-16	75.1		PM4-BT0650-010400-002-g09 BT0650 Homo sapiens cDNA
7600	7064	24/3/	-	4.0E-16 P08548		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
8200	0350	6/697	33.8	4.0E-16	2	NT	Homo sepiens chromosome 21 segment HS21C084
800/	27.7.5	27425	122	4.0E-16	423191		Homo sepiens hypothetical protein FLJ10024 (FLJ10024), mRNA
600	18421	28691	1.74	4.0E-16	30.1	EST_HUMAN	AV730030 HTF Homo sapiens cDNA clone HTFAWA03 5
9156	18906		1.64	4.0E-16 P08548		SWISSPROT	LINE-1 REVERSE TRANSCRIPTASE HOMOLOG
9244	18957		5.94	4.0E-16 C05947.1		EST_HUMAN	C05947 Human pancreatic islet Homo saciens cDNA clone the R355
9255	18964	25319	204	4.0E-18	6912459 NT		Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA
23	10102	19924	1.59	3.0E-16		EST HUMAN	df45c01.y1 Morton Fetal Cochles Homo saniens ChNA class MACE: 748627 5:
128	10102	19925	1.59	3.0E-16/		Г	d/45c01.y1 Morton Fetal Cochlea Homo saniens cDNA clone MAA CE: 3468376 51
458	10402		1.47	3.0E-16		Г	DKFZp434P037, rt 434 (synonym: htes3) Homo saniens chiving htera DkFzp434P037, rt
							C JOH TOTAL ON THE CONTROL OF THE CO

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Table 4
Single Exon Probes Expressed 1

		_	_			_		-		_	_	_			_													•
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sabiens TSX (TSX) pseudorens own 6	ZONADHESIN PRECURSOR	ENVELOPE GLYCOPROTEIN GP340 (MEMBRANE ANTIGEN) (MA) [CONTAINS: GLYCOPROTEIN GP220]	Home carione ED App comment feet 1	Himan BXD20 Action Common (regula region, diagenosine triphosphate hydrolase (FHIT) gene, exon 5	AV681393 (3) C Homo conjune ADM slows OI COOLAGE AL	Homo sadens olypican 3 (GPC3) dene harffel rds and dinkling series olypican 3	am98h05.s1 Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR by THR renefitive element:	602246538E1 NIH MGC 62 Home Confirm TONA THE WAY OF THE PROPERTY OF THE PROPER	Homo sapiens A DP/A TP certies profess (ANT 2)	Homo sapiens chromoome 24 segment Liou contact.	8706004.51 Soares feeths NHT Home continue Child All All All Child All All All All All All All All All A	Human SSAV, related endozennus retraited 170 III.	H.saniens DNA for endonomic retroited life clement	included the control of the control	nz47f06.x5 NCI_CGAP_Pr12 Homo sapiens cDNA clone IMAGE:1290947 similar to TR:O54849 O54849	Homo saniens nithitien, timor transforming	af39911:s1 Soares, total feets, NbZHF8_9w Home sapiens cDNA clone IMAGE:1034084 3' similar to	OVICENIA OT NECESTRATION OF SECULATION (*)	Homo sapiens CCR8 chemokine recentor (CNMRDB) nemo complete and	MITOGEN-ACTIVATED PROTEIN KINASE KINASE KINASE 10 (MIXED LINEAGE KINASE 2) (PROTEIN	Home sanishs COBB champling second - / Authors	OV2-PT0012-040400-124-905 PT0012 Home conjunction of the conjunction o	CM1-NN1003-200300-153-e01 NN1003 Homo sanians CNNA	1922c11.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2109524 3' similar to contains MER28.t2 MER28 repetitive element:	xg49g12.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2630950 3' similar to contains OFR.t2 OFR repetitive element:	
tle Exon Prot	Top Hit Database Source	LZ	SWISSPROT	SWISSPROT	Į.	Ę	EST HUMAN	NT	EST HUMAN	FST HIMAN	L	NT.	EST HUMAN	L	Ł			NT LOWNER	I BAAN	T	Т		100	1	T			7
Sin	Top Hit Acession No.	3.0E-16 AF135446.1		3.0E-16 P03200	03.1		33.1		3.0E-16 Al002836.1	3.0E-16 BF690617.1		9.2	1.				2 NE-16 A 173 283 7 4	16		2.1			-	1.1	Γ		9.0E-17 AW150257.1	1
	Most Similar (Top) Hit BLAST E Value	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	3.0E-16	2.0E-16	2.0E-16	2.0E-16	2.0E-16		2 NF-16	1.0E-16	1.0E-16	1.0E-16	1.0E-16	1.05-16 002779	1.0E-16	1.0E-16	9.0E-17	9.0E-17	9.0E-17	
	Expression Signal	1.6	201	4.05	80.	0.99	1.01	1.41	4.72	1.27	3.08	1.18	0.96	1.71	1.33			2.55	22.41	244	23.72	2.81	6.59	1.31	2.54	2.02	4.87	
	ORF SEQ ID NO:		21207	22670			24521	25431	27098		27922				23764		26720	19983		21704		25987		27416	23379			
	Exon SEQ ID NO:	10410	11341	12873	13785	13786	14741	15373	16908	17541	17678	10880	12217	12524	13987		16526	10149	10361	11823	15783	15865	15783	17217	13593	15938	18600	
	Probe SEQ ID NO:	467	1436	2946	3874	3875	4861	5452	7031	7691	7828	926	2337	2657	4087		6646	178	377	1928	5877	5960	6458	7349	3679	6035	6720	

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Single Exon Probes Expressed in Heart

	Top Hit Descriptor	Homo sapiens pituitary tumor transforming gene protein (PTTG) gene, complete cds	QV0-OT0032-080300-155-d01 OT0032 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C080	MRO-HT0559-060300-003-e04 HT0559 Homo sapiens cDNA	AV730759 HTF Homo saplens cDNA clone HTFAQB07 5'	Mus musculus apolipoprotein B editing complex 2 (Apobec2), mRNA	Homo sapiens putative MTAP (MTAP) mRNA, partial cds, alternatively spliced	Mus musculus WNT-2 gene, partial cds; putative ankyrin-related protein and cystic fibrosis transmembrane conductance requistor (CFTR) genes, section 1 of 2 of the complete cds; and informan agents.	RC1-HN0003-220300-021-b04 HN0003 Homo sapiens cDNA	hi81404.xf Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2978695 3' similar to contains L1.t2		ycconds.r.i Stratagene lung (#93/Z10) Homo sapiens cDNA clone IMAGE:79839 5'	yozobu-tri socares ieta livel spieen IN-LS Homo sapiens CDNA cione IMAGE: 109327 5	Homo sapiens chromosome 21 segment HS21C047	ov45e04.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1640286 3' similar to TR:Q16530 Q16530 PMS3 MRNA ;contains MER10.t2 MER10 repetitive element ;	xd89c09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE_2604784 3.	MAS-RELATED G PROTEIN-COUPLED RECEPTOR MRG	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181999 3'	hw05b04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3181999 3'	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14/2), mRNA	AV720204 GLC Homo saplens cDNA clone GLCDIF08 5	qt63a06.x1 NCI_CGAP_Eso2 Homo saplens cDNA clone IMAGE:1959922 3' similar to contains Alu repetitive element.	qt63a06.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:1959922.3' similar to contains Alu	repetitive element;	zg81d04.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:399751 3'	ZONADHESIN PRECURSOR	ZONADHESIN PRECURSOR
Saci illova sig	Top Hit Database Source	I	EST HUMAN Q	IN IN	EST_HUMAN M	EST HUMAN A		NT	¥ 8	T HUMAN		T	П	HOMAIN	NT H	EST_HUMAN Q	EST_HUMAN xd	SWISSPROT M.	EST_HUMAN hv		H S		T HUMAN	EST HUMAN re					SWISSPROT
	Top Hit Acession No.	9.0E-17 AF200719.1	8.0E-17 AW880701.1	8.0E-17 AL163280.2	8.0E-17 BE172081.1	8.0E-17 AV730759.1	TN 76053097 NT	7.0E-17 AF216850.1	7.0E-17 AF229843.1	6.0E-17 AW983880.1	8 OE 47 AWG89779 4	٠,	5.0E-17 164110.1		4.0E-17 AL163247.2	4.0E-17 Al073546.1	3.0E-17 AW119123.1	P35410	3.0E-17 BE326522.1	3.0E-17 BE326522.1	3.0E-17 AB026898.1	7966	3.0E-17 AV720204.1	2.0E-17 AI270080.1		2.0E-17 AI270080.1	32.1		Q28983
	Most Similar (Top) Hit BLAST E Value	9.0E-17	8.0E-17	8.0E-17	8.0E-17	8.0E-17	7.0E-17	7.0E-17	7.0E-17	6.0E-17	8 OF 47	0.0E-17	5.UE-17	3.0E-17	4.0E-17	4.0E-17	3.0E-17	3.0E-17 P35410	3.0E-17	3.0E-17	3.0E-17	3.0E-17	3.0E-17	2.0E-17		2.0E-17	2.0E-17	2.0E-17 Q28983	2.0E-17 Q28983
	Expression Signal	2.18	1.7	0.87	3.56	1.36	3.18	3.05	6.83	4.78	4.63	200	202	201	2.12	1.98	1.35	1.31	1.14	1.14	4.72	3.16	15.82	2.81		2	1.27	2.6	2.6
	ORF SEQ ID NO:				25402				26052	19986	25830	40779	28502	70007	28887		21836		23293	23294	27660			20127		20127		22170	22171
	Exan SEQ ID NO:	17720	10919	13729	19444	16174	11347	15184	15921	10168	15747		3302	2000	18598	18914	11941	13082	13504	13504	17445	18890	19386	10309		10309	10896	12275	12275
	Probe SEQ ID NO:	7870	1001	3817	5427	6311	1442	5262	6017	196	5812	445	413 8476	2 2	8783	9171	2051	3157	3590	3280	7594	9134	6066	320		351	972	2397	2397

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Single Exon Probes Expressed in Heart

							_	\neg	_	T-	_	-	·	_					_	_	_			_			
Oligio Lauri Flobes Expressed in Heart	Top Hit Descriptor	NEUROFILAMENT TRIPLET H PROTEIN (200 KDA NEUROFILAMENT PROTEIN) (NEUROFILAMENT HEAVY POI YPEPTIDE) (NE.H)	Mus musculus ultra high sulfur benedia wang commissional	Mus musculus ultra high sulfur Verefin vene commuler. J.	Homo sapiens MHC class 1 renion	OLFACTORY RECEPTOR: IKF PROTEIN OF FA	EST13504 Testis tumor Homo sapiens cDNA 57 and similar to similar to all	Homo sapiens chromosome 21 segment HS-10047	Homo sapiens chromosome 21 segment HS21C047	Human CYP19 gene for aromatase cytochrome P-450, promoter region (containing two cis-acting	denscripuonal regulatory elements)	Home canions changes of the Control	COLLAGEN ALBUA 4(ii) STAN ESEGMENT HSZTC007	Home sarions throughout a (Till Cold Cold Cold Cold Cold Cold Cold Co	Homo sapiens mannosidase, beta A, tysosomal (MANBA) gene, and ubiquitin-conjugating enzyme F2D 3	(UBEZU3) genes, complete cds	Visuator, it i Soares retal liver spicen 1NFLS Homo sapiens cDNA clone IMAGE:128388 5' hes8e05.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2921312 3' similar to contains Alu	repending element, contains LINB. TILLINB. TILLINB. repetitive element;	Headbury Coares Idaa Jung India Homo sapiens cDNA clone IMAGE:1743825 3'	URIDINE PHOSPHORY ASE / Indipasses	MYOSIN LIGHT CHAIN KINASE SMOOTH MISS F MILES F MILES	(201812.51 Stratagene fetal retting 937202 Home Senter Child.	186403.X Soares NSF F8 ow OT DA D S4 DOWN CONS INVESTIGATION OF THE PROPERTY O	Homo sapiens protein twosine phosphatese management of the contraction	xc10b04.x1 NCI_CGAP_Pan1 Homo saplens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RIBOSOMAL PROTEIN 14 /HI IMAN).	xx10b04.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2837071 3' similar to gb:L20868 60S RIBOSOMAL PROTEIN L4 (HIMAN):	ya49c07.s1 Soares infant brain 1NIB Homo sepiens cDNA clone IMAGE:53285 3' similar to contains L1 repetitive element;
פום בייחווי וים	Top Hit Database Source	SWISSPROT	N _T	Z	N	SWISSPROT	EST_HUMAN	FN	TN	FM	CMICCODOT	NT	SWISSPBOT	TN	-	NI FOT UNIVANI	EST HIMAN	EST HIMAN	EST HIMAN	SWISSPROT	SWISSPROT	EST HUMAN	EST HUMAN	ト	EST HUMAN	EST HUMAN	
5	Top Hit Acession No.	P12036	2.0E-17 M27685.1	2.0E-17 M27685.1	2.0E-17 AF055066.1	Q95156	-		7	2 0E-47 D43304 4	P08183	37.2		_		1.0E-17 AF 224009.1	,	T				78.1	9.0E-18 AI472167.1	758977	7.0E-18 AW316976.1	7.0E-18 AW316976.1	
	Most Similar (Top) Hit BLAST E Value	2.0E-17 P12036	2.0E-17	20E-17	2.0E-17	2.0E-17 Q95156	2.0E-17	20E-17	2.0E-17	2.05-47	1 0F-17 P08183	1.0E-17	1.0E-17 P02461	1.0E-17	4 00	1 0E-17	1.0E-17	1.0E-17	1.0E-17 A1185642	1.0E-17 Q16831	1.0E-17 Q28824	9.0E-18	9.0E-18	8.0E-18	7.0E-18	7.0E-18	7.0E-18 R16220.1
	Expression Signal	5.62	1.95	1.95	2.07	1.44	1.38	2.72	2.72	10 10	337	2.45	1.68	1.46	107	12.2	4.7	44.	1.44	1.32	2.01	0.96	3.26	1.75	8.39	8.39	0.85
	ORF SEQ ID NO:	22621		25018					27773	27981		21499	21853	22067				26037	26038	26232	28821	22196		23415	20121	20122	24774
	Exan SEQ ID NO:					_			17549	17737	10665	11630	11959	12170	13435			15911	15911	16082	18536	12299	17328	13630	10305	10305	15003
	Probe SEQ ID NO:	2899	5295	5295	5790	6711	6925	7699	7699	7887	733	1729	2069	2287	3519	4045	5885	9009	9009	6216	8719	2422	7468	3718	346	346	5136

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					uio	gle Exon Pro	Single Exon Probes Expressed in Heart
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Databese Source	Top Hit Descriptor
7696	17546	27769	4.4		1.0E-18 U91328.1	Ę	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NDT3) range commissionals
9277	18980	25324	2.53		1.0E-18 AF003529.1	N	Homo sapiens glypican 3 (GPC3) gene, partial cds and flanking repeat regions
533	10475	20289	4.28	9.0E-19	9.0E-19 AA281961.1	EST_HUMAN	z/11d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element;
534	, 10475	20289	3.19	9.0E-19	9.0E-19 AA281961.1	EST HUMAN	2111d06.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.12 MER19 repetitive element:
6584	16464		5.21	9.0E-19	9.0E-19 F08688.1	EST HUMAN	HSC23F051 normalized infant brain cDNA Homo saniens cDNA clane c. 2366
7042	16919		2.46		9.0E-19 AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
7042	16919		2.46		9.0E-19 AL163203.2	LN	Homo sapiens chromosome 21 segment HS21C003
8470	18343	28608	3.88		9.0E-19 AB032969.1	LN.	Homo saplens mRNA for KIAA1143 protein, partial cds
9042	10475	20289	8.69		9.0E-19 AA281961.1	EST HUMAN	Z11d08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:712811 5' similar to contains MER19.t2 MER19 repetitive element:
1032	10950		1.54		8.0E-19 AW974902.1	EST_HUMAN	EST387007 MAGE resequences, MAGN Hamo sapiens cDNA
2198	12085	21987	1.58	7.0E-19	4758139 NT	LN	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) hrv notweenfale & /DMA ballands of the control of the
5884	15791	25913	2.15	7.0E-19	7.0E-19 AF092090.1	Ę	Rattus norveolicus co 151 mRNA partial cde
9179	19742		2.95	7.0E-19	7.0E-19 AA705684.1	EST HUMAN	2000b01.s1 Sogres fetal liver spleen 1NFIS S1 Hump canions ADMA Alama MAACE: 125416.91
3713	13626		1.02	6.0E-19	6.0E-19 AW852930.1	EST HUMAN	PM0-CT0248-131099-001-001 CT0248 Home sabiens cDNA
4360	14256	24041	1.36	6.0E-19 P34986		SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
4360	14256	24042	1.36	6.0E-19 P34986	P34986	SWISSPROT	OLFACTORY RECEPTOR 6 (M50)
48	14580		1.18	6.0E-19		LN	Homo sapiens Xq pseudoautosomal region; segment 1/2
4952	14829	24595	1.09	6.0E-19	6.0E-19 AL120817.1	EST_HUMAN	DKFZp762F192_r1 762 (synonym: hmel2) Homo sariens cDNA clone DKFZn782F102 5
5571	15486	25562	5.24	5.0E-19 Q00193	Q00193	SWISSPROT	ZONA PELLUCIDA SPERM-BINDING PROTEIN B PRECURSOR (ZONA PELLUCIDA GLYCOPROTEIN ZP-X) (RC55)
8824	18637	28921	7.19	5.0E-19	5.0E-19 AW183725.1	EST_HUMAN	x87b02x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2864171 3' similar to contains element MSR1 repetitive element:
				•			Human germline T-cell receptor beta chain TCRBV13S1, TCRBV6S8A2T, TCRBV5S6A3N2T, TCRBV13S6A2T, TCRBV6S9P, TCRBV6S3A2T, TCRBV13S8P, TCRBV6S3A1N1T, TCRBV6S2,
9849	19495		1.52	5.0E-19	5.0E-19 U66060.1	LN.	ICKBV636AZI, ICKBV635/P, ICKBV1384, TCRBV682A1N1T, TCRBV6S4AZT, TCRBV634A1, TCRBV23S1A2T. TCRBV19>
542	10483	20293	1.45	4.0E-19	4.0E-19 AB007970.1	TN	Homo saplens mRNA, chromosome 1 specific franscript KIAA0504
2649	12516	22406	1.39	4.0E-19	1.7	T HUMAN	602/30910F1 NIH MGC 56 Homo saplens cDNA clone MAGE: 47874 F1
					1	1	C #101074 TOURING CIOID CALIFORNIA ACCOUNTS TO THE COLOR

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Table 4

Single Exon Probes Expressed in Heart	Top Hit Descriptor	Т	Т	zi 78008.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:418191 3' similar to		T	Mus musculus MMAN-g mRNA, complete cds	Т	Т	Himman ByDox	OI FACTORY BECEDIADE INC. PROTECTION		T	RETROVINGS RELATED POL POLYPROTEIN (CONTAINS: REVERSE TRANSCRIPTASE	Т		Inge9h09.s1 NCI_CGAP_Lip2 Home sapiens cDNA clone IMAGE:940097 similar to TR:G1224066	Ing69h09.s1 NCI_COAP_LIDE Hampown.; G1224nes OPE2: ELIMPTON IN SOURCE ON SPIRILIER to TR:G1224066	x24e10.x1 NCI_CGAP_UI4 Homo sepiens cDNA clone IMAGE:2761098 3' similar to SIM-DEE MOLLOC	P97461 40S RIBOSOMAL PROTEIN S5.:	ZUNADHESIN PRECURSOR	LUNADHESIN PRECURSOR	Homo sapiens malate dehydrogenase 1, NAD (soluble) (MDH1) mRNA	Home sanions DCL4	oa35008.s1 NCI CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1306935 3' similar to contains MER4.b2	יייי יייי כליפוומון,
igle Exon P	Top Hit Database Source	ECT UIBAAN	EST HIMAN	EST HUMAN	100	TO TOWN		EST LIMANN	EST HIMAN	NT IN	SWISSPROT	Tột Lị MAN	TIV.	TO GOOD STANS	EST LINAAN	EST HIMAN	EST HUMAN	EST HIMAN		ES! HUMAN	WISSPROI	SWISSPRO	L L	LN	EST HUMAN	
is .	Top Hit Acession) RF622434 1	5.0E-20 AV725123.1	5.0E-20 W90525.1	5.0E-20 Wans2s 4	5.0E-20 AB028174 1	5.0E-20 AB028174 1	4.0E-20 AI874352 1	4.0E-20 AW937469 1	3.0E-20 U03888 1	3.0E-20 P23273	3.0E-20 AA037616 1			22.1			2.0E-20 AA516335.1		- 9		E47/E30	o I		13	
	Most Similar (Top) Hit BLAST E Value	8.0E-20	5.0E-20	5.0E-20	5.0E-20	5.0E-20	5.0E-20	4.0E-20	4.0E-20	3.0E-20	3.0E-20	3.0E-20	3.0E-20	3.0E-20	3.0E-20	2.0E-20	2.0E-20	2.05-20	2 OE 30	2 0F-20 C28083	20F-20 C28983	20F-20	2.0E-20 D10083 1	2.0E-20 D10083.1	2.0E-20 /	
	Expression Signal	2.55	1.17	4.66	4.68	4.	1.44	6.03	1.17	1.04	1.69	0.86	3.26	2.08	5.37	4.52	2.03	2.03	2.2	4.32	4.32	11.35	2.95	2.95	1.95	
	ORF SEQ ID NO:	23850		26704	26705	27197	27198	-	28087	21876	23795	24201			25352		20852	20853		24525	24526		27378	27379	28089	
	Exon SEQ ID NO:	14075	14385	16514	16514	17005	17005	16504	17845	11981	14015	14417	17049	17946	18929	10741	11011	11011	10741	14746	14746	14960	17177	17177	18797	
	Probe SEQ (D NO:	4175	4491	6634	6634	7128	7128	6624	7995	2092	4115	4524	7172	8055	9195	813	1095	1095	2786	4866	4866	5090	7301	7301	8993	

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Table 4
Single Exon Probes Expressed in Heart

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			1-	-			_				-	_	_		_	_	_															
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo saniens DNA for emyloid precuirent amelia and 1.1.	cos6e08.s1 NCI_CGAP_Kid5 Honor sepiens cDNA clone IMAGE:1573094 3' similar to TR:Q16630 Q16530 PMS3 MPNA "Contribution of the contribution of the	Raftis notweding mRNA for TIM completed.	Homo sapiens chromosome 24 segment DO2 Seg	Homo sapiens LGMD2R dana	601844465F1 NIH MGC 54 Homo services CDNA - 1. 11/10 F 1/10 F 1/10 F	RCI-OT0083-100800-019-018-0T0083-U-008-0-018-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	CM1-NN0063-280400-2013-30-30-30-30-30-30-30-30-30-30-30-30-30	Homo sapiens chromosme 24 seamont De 20042	OV3-HT0458-170200-030-042 HT0458 Home contined for the co	Home saniane mRNA for KIAAGGG Towers	Home seriens mBM for VIA Accept	Trains september in two to Investigate of the Property of the	NOTED 11-14 I SE-UTI-NUB BI UST1 Homo sapiens cDNA	ZOWAN I COURT IN THE COURT IN T	CONADHESIN PRECURSOR	ts30f03.x1 NCI_CGAP_Pan1 Homo sapiens cDNA done IMAGE:2230109 3' similar to TR:Q99864 Q99854 HYPOTHETICAL 61 4 KD PROTEIN .	OVO-HT0103-091199-01-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	AU136779 PLACE1 Homo sabiens cDNA clune PI A DE1000 Act	ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MFR29 ha	WERZ9 repetitive element;	60 reposace Mill MGC_83 Homo sapiens cDNA clone IMAGE:3951008 5'	Homo sapiens mitative & hydrogenesic CNA 1.	n/46c04.s1 NCI_CGAP_Pr4 Homo saplens cDNA clone IMAGE:1043718 similar to containe MED20 Lo	MER29 repetitive element;	arodo12X1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2162343 3	DKFZp434[0830_r1 434 (synonym: https3) Homo sapiens cDNA clone DKFZp434[0830_5	9947e05x1 Soares_testis_NHT Homo:sapiens cDNA clone IMAGE:1838336 3' similar to gb:M64241 QM PROTEIN (HUMAN):	Homo sapiens SET domain and mariner transposes a fincian and (SETMAN)	1294a03.X1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2296204 3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT	
ngle Exon Pro	Top Hit Database Source	ĮN.	EST HIMAN	L	LN.	L'N	EST HUMAN	EST HUMAN		N.	EST HUMAN	NT	TN	EST HIMAN	SWISSPROT	SWISSESSTATE	SWISSPROI	EST HUMAN	EST HUMAN	EST HUMAN		EST HUMAN	EST DI MAN	LN		EST HUMAN	ES HOWAN	EST_HUMAN	EST HUMAN		EST_HUMAN	7
<u></u>	Top Hit Acession No.	5.0E-21 D87675.1	4.0E-21 AA970713.1		3.0E-21 AL163201.2	3.0E-21 AJ007973.1	3.0E-21 BF184739.1	3.0E-21 BF361093.1	3.0E-21 AW897760.1	3.0E-21 AL163213.2	2.0E-21 BE163247.1	2.0E-21 AB007857.2	2.0E-21 AB007857.2	2.0E-21 BE064410 1	"	2 0F-24 O28083	420000	2.0E-21 AI624582,1	BE141785.1	2.0E-21 AU136779.1		. .		2.0E-21 AF176815.1		1.0E-21 AA33/03/.1	4 OF 24 A1 GROTEO 4	ALU/9/52.1	1.0E-21 AI223104.1	5730038 NT	9.0E-22 AI702438.1	
	Most Similar (Top) Hit BLAST E Value	5.0E-21	4.0E-21	4.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	3.0E-21	2.0E-21	2.0E-21	2.0E-21	2.0E-21	2.0E-21	2.0E-21	4:01-2:1	2.0E-21	2.0E-21	2.0E-21	20.00	2 OF 24	20F-21	2.0E-21	L	1 OF 24	10.00	1.05-21	1.0E-21	1.0E-21	9.0E-22	
	Expression Signal	0.95	1.24	3.06	1.06	4.04	1.72	4.79	1.55	1.32	14.75	0.85	0.85	2.09	2.89	2 89		1.77	4.66	3.43	80	1 92	1.92	5.13	7 00	2.46	2 43	2	4.43	1.46	2.55	
	ORF SEQ ID NO:		21473	26138	22015	22762		26100	27656	24992		20688	20689		22361	22362		25126	26944	27190		28776	28777		70000				26289		23993	
	Exon SEQ ID NO:	14977	11602					15966	17440	19672	10114	10843	10843	11106	12468	12468		15290	16749	16999	18287	18501	18501	19072	11142	11286	15813		16134	17871	14209	
	Probe SEQ ID NO:	5109	1701	6106	2228	3041	5749	9029	7589	8684	45	919	919	1196	2599	2599		5370	8 8 9	7122	8412	8636	8636	9425	1235	1381	5907		6229	8021	4312	

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Single Exon Probes Expressed in Heart

	Top Hit Descriptor	215,003	340001	MISOCOSE,	ing BI A CESTAGOS LEI	Maio 16 (Tende) - DNA	Ocereta (Tierra), menyA	2k67a06.r1 Soares pregnant intents NHHD11 Lows and an analysis and a second a second and cond and MONAGE SEPTIONS CONTRACTOR OF SEPTIONS OF	3 Al BHASA	B complete ode	in) voliminata cus	EST00738 Fetal Irain Stratages (rattogeness) Home services and services are services and services and services are services and services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services are services and services are services and services are services and services and services are services and service	SEVICES ASSETS CONTRIBUTION	CONA Jone 1840 GE-0540940 of	1CADA	Section of the party of the par	naa27b06.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3255898 3' similar to contains Ah		eament 1/2	10000	DNA clone IMAGE:4095434 5	TCD00	tm14h10.x1 NCI_CCAP_Co14 Homo sapiens cDNA clone IMAGE:2156611 3' similar to gb:L19593 HIGH AFFINITY INTERLEUKIN-8 RECEPTOR 8 (HI IMAN) contains 1.4 4.14	WIG6D04.X1 NCI_CGAP_Brn25 Homo sapiens cDNA done IMAGE:2429839 3' similar to SW:RL21_HUMAN		db28c07.x1 Soares_pregnant_uterus_NbHPU Homo saptens cDNA clone IMAGE:1697580 3' similar to		o sapiens cDNA	yx/3d05.s1 Soares melanocyle 2NbHM Homo sapiens cDNA clone IMAGE-267369 31	ECURSOR	Homo sepiens protein kinase, AMP-activated, gemma 3 non-catalviic subunit (PRKAG3) mRNA	UNI 111 1/2017 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Single Exon Propes Expressed in Heart	-	Homo sapiens chromosome 21 segment HS21C001	Homo sapiens chromosome 21 segment HS21000	AV761874 MDS Home sapiens CONA clone MDSCCCOS S	AU140358 PLACE? Homo saniens cDNA clone DLACESONSSS 51	Mus musculus TF-1 cell apomtosis related profein 46 (T6-45)	CM0-HT0179-281099-076-h05 HT0179 Home canions of No.	zk67a06.r1 Soares pregnant utenis	Homo sapiens chromosome 21 segment HS21C046	1	Т	1	EST00738 Fetal brain Stratagene (c)	Homo sapiens T cell recentor beta locus TORN/70343 to TODO/4069	WX05g07.X1 NCI CGAP Gas4 Homo sanieps CDNA Acre 1840 CE -2542842 21	Homo sapiens chromosome 21 segment HS21C103	Human dystrophin (DMD) dene ayons 7 8 and 0 and 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	naa27b06.x1 NCI_CGAP_Pr28 Home	repetitive element;	Homo saplens Xq pseudoautosomal region: segment 1/2	Homo sapiens chromosome 21 segment HS21Cnn2	601882813F1 NIH MGC 57 Hamo sapiens cDNA clone IMAGE 4095434 F	Homo sapiens chromosome 21 segment HS21C009	tm14h10.x1 NCI_CGAP_Co14 Homo	wi66b04.x1 NCI_CGAP_Brn25 Homo sapier	Himms chromosomal mains Lings	qb28c07.xt Soares_pregnant_uterus_NbHPU Ho	contains MER12.t2 MER12 repetitive element;	RC5-BT0707-150300-021-H10 BT0707 Homo sapiens cDNA	yx73d05.s1 Soares melanocyte 2NbH	IMMEDIATE EARLY GENE 13 PROTEIN PRECURSOR	Homo sapiens protein kinase, AMP-ac	DAM-CTORS SEAACH AND LAN CTORSOLL
gie Exon Pro	Top Hit Database Source	N.	F	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	LN LN	SWISSPROT	N	LN LN	EST HUMAN	NT L	EST HUMAN	N TN	LN		EST_HUMAN	LN	N	EST_HUMAN	N	EST HUMAN	EST HIMAN	TN		EST HUMAN	EST HUMAN	EST_HUMAN	SWISSPROT	L	MANNIH TRA
Offi	Top Hit Acession No.	9.0E-22 AL163201.2 ·	9.0E-22 AL 163201.2	9.0E-22 AV761874.1	9.0E-22 AU140358.1	9790256 NT	8.0E-22 BE144748.1	8.0E-22 AA046502.1	7.0E-22 AL 163246.2		l	7.	7.0E-22 M78590.1	7.0E-22 AF009660.1	6.0E-22 AW029123.1	5.0E-22 AL 163303.2	5.0E-22 U60822.1		5.0E-22 BF476511.1	4.0E-22 AJ271735.1				3.0E-22 AI469679.1		3.0E-22 D14718 1		_	=	_		8	2 0E-22 AW817704 1
	Most Similar (Top) Hit BLAST E Value	9.0E-22	9.0E-22	9.0E-22	9.0E-22	9.0E-22	8.0E-22	8.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	7.0E-22	6.0E-22	5.0E-22	5.0E-22		5.0E-22	4.0E-22	4.0E-22	4.0E-22	4.0E-22	3.0E-22	3.0E-22	3.0E-22	L	3.0E-22	3.05-22	2.0E-22	2.0E-22 P24916	2.0E-22	2 OE-22
	Expression Signal	1.26	1.26	3.65	2.92	2.39	4.55	3.8	4.23	2.32	1.18	1.34	2.63	1.86	1.82	2.53	3.97		2.03	0.85	2.7	2.97	1.51	1.2	1.86	1.49	c, c	2.14	2.73	2.86	1.33	4.06	1.26
	ORF SEQ ID NO:	27070	27071	28309	29048					23861	24613		27196	27599		25955	28001					28244			22288		77270	243/4	10007		224	73091	23808
	Exon SEQ ID NO:	16879	16879	18059	18753		10858					16921	17004	1	- 1	15832	17762	40040	19213	13498	- 1	- 1	19315	10868	12397	13534	14584	16677	14001	CDO !	12352	13232	14033
	Probe SEQ ID NO:	7002	7002	8171	8945	8997	933	6099	949	4186	4969	7044	7127	7538	9229	5927	7912	000	C+08	3284	6902	8105	9803	943	2523	3620	4695	6703	40.00	2 5	24/6	3 3	4133

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Table 4
Single Exon Probes Expressed

			_			_					_,															_		
Single Exon Probes Expressed in Heart	Top Hit Descriptor	2220f01.r1 Scares_senescent_fibroblasts_NbHSF Homo sapiens cDNA done IMAGE:322873 6' similar to qb:X72308 MONOCYTE CHEMOTACTIC PROTEIN 3 PRECEI IDEAD ALI IMAMA.	RC0-TN0079-150900-025-h12 TN0079 Homo saniens cDNA	ql76h08.xt Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1878299 3' similar to contains MER29 to MER2	INOGARITIST NCI CIGAD Prop Home conform obiNA class MACE Access 21	Inv04h11.s1 NCI CGAP Pr22 Homo saniens CDNA clone IMACE-1210269 3	ha24f04.x1 NCI CGAP Kid19 Home senions cDNA clean 114 OF 2021 21	Homo sapiens chromosome 21 serment HS21Chan	PM4-SN0020-010400-009-b02 SN0020 Home capitate only	Human familial Alzheimer's disease (STMO) nene complete ada	Human DNA. SINE repetitive element	MR0-BT0659-220200-002-h07 BT0659 Homo emission CDNA	IL2-UM0076-070400-061-F11 UM0076 Homo semiens cDNA	Gallus dallus Dach2 protein (Pach2) mRNA complete ode	HA2340 Human fetal liver cDNA lihrary Home seriess cDNA	HA2340 Human fetal liver cDNA library Home carions and A	AV647246 GLC Horno saniens cDNA close GLC AVICO2 of	Homo sepiens DKFZP56400463 protein (INKFZP56400463) mBNA	Homo sapiens Not56 (D, melanogaster)-like morein (NOT56), meNA	Raffus norveoleus RIM18 (Rim4R) mRNA complete ada	Homo saplens chromosome 21 segment HS210049	Homo sapiens mannosidase, beta A, Iysoscmal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete ode	9959003.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839460 3' similar to SW:MV10_MOUSE P23249 PROTEIN MOV-10	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A2b (MAGEA2B), melanoma antigen family A3 (MAGEA3), caltractin	Pondo primaiens offertray recents (IBDX442)	Pondo ovamaeus offerfor, receptor (DDV44s)	and by Pygniacas created a respect (TTT10) gane, paries cas
gie Exon Pro	Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN LN	EST HUMAN	L L	TN	EST HUMAN	EST HUMAN	TN	EST HUMAN	EST HUMAN	EST HUMAN	LN	LN LN	FA.	LX	Į.	F	EST_HUMAN	ŢN	LN	L	
Sign	Top Hit Acession No.	2.0E-22 W39456.1	2.0E-22 BF092116.1	2.0E-22 AI276522.1	20E-22 AA715315,1	20E-22 AA715315.1	AW418960.1	2.0E-22 AL163280.2	1.0E-22 AW865517.1	J50871.1	D14547.1		L			8.0E-23 Al133716.1	7.0E-23 AV647246.1	10092626 NT	5031952 NT	3.1	3.2	6.0E-23 AF224669.1		1209130.1			-	
	Most Similar (Top) Hit BLAST E Value	2.0E-22	20E-22	2.0E-22	20E-22	20E-22	2.0E-22	2.0E-22	1.0E-22	1.0E-22 U50871.	1.0E-22 D14547.1	1.0E-22	9.0E-23	8.0E-23	8.0E-23	8.0E-23	7.0E-23	7.0E-23	7.0E-23	6.0E-23 AF19933	6.0E-23 AL163249	6.0E-23	6.0E-23	6.0E-23 Al209130.	5.05-23 [182671.2	5.0E-23/	6.0E-23 AF179818	
	Expression Signal	1.44	3.39	1.49	70.7	7.07	2.04	1.85	1.78	2.65	1.74	1.49	4.71	0.84	1.48	1.48	1.45	1.04	3.51	1.62	3.12	1.99	1.99	2.18	50.00	3.51	3.04	
	ORF SEQ ID NO:	25561	25763	27661	27710	27711	28071	25200	21609	22303	23084	26589		23236	24935	24936		24438	28526		23846	25338	25339	25297	25088	25797	25797	
	Exan SEQ (D NO:	19447	15655	17446	17490	17490	18779	19304	11733	12413	13284	16411	19342	13439	15165	15165	13192	14649	18274	13305	14071	18899	18899	19021	15262	19454	19454	
	Probe SEQ ID NO:	5570	5747	7595	7640	7640	8974	6006	1836	2539	3365	6553	9844	3523	5241	5241	3271	4764	8338	3387	4171	9146	9146	8341	5341	5781	6397	

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Single Exon Probes Expressed in Heart

Most Similar	Most Similar	Most Similar					Total Training
SEQ ID NO:	SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Source	Top Hit Descriptor
6580	16460	26653	3.56		3.0E-23 AA130165.1	EST HUMAN	235g09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503968 5' similar to
7329	17233	27435	3.61	3.0E-23	l	N	Himan endicements retreated at 1900 and
328	17233	27436	3.61			Ę	Himan and denomic setting of the control of the con
920	10586	20402	4.36		2.0E-23 AJ289880.1	Ę	Homo saplens KI & A BR 4 composition of the composi
1126	12644		2.77	2.0E-23		Į.	Human matrix Gla matein (McD)
2765	12627	22519	1.06		2.0E-23 P22105	SWISSPROT	TENASCIN-X PRECIIRON (TN X VICEXABOA 2 IION II 22)
2765	12627	22520	1.08	2.0E-23	2.0E-23 P22105	SWISSPROT	TENASCIN-X PRECURSOR (TN-X) (HEXABRACHION-LIKE)
3325	13245		1.46		2.0E-23 Al201458.1	EST HIMAN	qs73f11.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:1943757 3' similar to TR:Q13537 Q13537
3655	13569		3.03	2.0E-23		EST HIMAN	MR3-HT0487-450200 442 - 24 LT0487 11 COMPLETE CONSENSUS SEQUENCE.
3894	13804	23589	2.98	2.0E-23	2.0E-23 H59931.1	EST HIMAN	Var Reno at Source 6441 Illiand 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3894	13804	23590	2.98	2.0E-23	2.0E-23 H59931.1	EST HUMAN	11 1992 11 Soares fetal liver spiece 1 In-LS Homo sapiens cDNA clone IMAGE:205418 5
•							Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 43
6595	16475		5.62	2.0E-23	2.0E-23 AF280107.1	Į.	4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polymentide 5 (CYP3A5)
9131	18888		2.69	2.0E-23	2.0E-23 M32658.1	Z	Himan almohol dehadraman
9656	19218		2.47	2.0E-23	-	LN	Home carbine T and the state of
9774	19676		2.02	2.0E-23	-	EST HIMAN	Al 143034 NVADOA U.
4428	14323	24110	1.6	1.0E-23	2	LN LN	Homo canions objections and the Control of the Cont
4657	14543		4.49	1.0E-23	2		Homo saplens chromosome 21 commet US24 Code
6034	15937		2.91	1.0E-23	4.	T HUMAN	601236455F1 NIH MGC 44 Home seriens CONA Alexanders
6865	16744	26937	4.54	1.0E-23.	1.0E-23 AA448097.1		zw82c06.r1 Scares_testis_NHT Homo sapiens cDNA done IMAGE.782698 5' similar to contains PTR5.t2 PTR5 repetitive element
540	10481		1.88	9.0E-24	9.0E-24 AA663213.1		ab75a08.s1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:852758 3' similar to
4549	14442	24225	1.08	8.0E-24 P23269		T	O EACTORY BEOCRETOR I INTEREST.
4549	14442	24226	1.08	8.0E-24 P23269		Т	OF ACTORY BEACET LIVE PROTEIN (3
3796	13708		1.31	7.0E-24	054.1	Т	ON DEMAND ASSESSION OF LINE PROJECTION (3
8	10623		2.4	6.0E-24	-	7	Arctaction from the first of th
828	10748	20595	10.14	6.0E-24	2		makada inskata ilinna for i estis-specific Protein Y (TSPY), complete cds Homo estions chromosome 34
3889	13800	23585	7.18	5.0E-24/			Homo sapiens 050 th comits Letter 1111
5611	15526	25609	3.06	4.0E-24		T LI BAAAN	nu3/Ho5.st No. Code Gast Homo septens CDNA clone IMAGE:1085529 3' similar to SW:POL MIVRK
							r31/95 POL POLYPROTEIN

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Table 4
Xon Probes Expressed in

Top Hit Database Source Source Source EST_HUMAN SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT SWISSPROT EST_HUMAN NT SWISSPROT EST_HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	2908366 3' CDNA clone IMAGE:548943 5' DR (HUMAN);	trypsinogen gene families NAGE:645271 5
Top Hit Database Source Source Source Source Source Source Source SOURSPROT SWISSPROT SWISSPROT SWISSPROT EST HUMAN NT SWISSPROT EST HUMAN EST HUMAN EST HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	2/30408.rt Strategore neurospithelium NT2RAMI 937234 Homo sapiens cDNA clone IMAGE: 2908366 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN); EST366629 MAGE resequences, MAGC Homo sapiens cDNA	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families 2452h04.r1 Strategene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645271 5 Homo sapiens chromosome 21 segment HS21C010
		NT HUMAN 2
Adees 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56.1	8.1 11.1 0.2
Most Similar (Top) Hift BLAST E Natuse Value 3.0E-25 AA57901 2.0E-25 ER88800 2.0E-25 EP17008 2.0E-25 EP17008 2.0E-25 AL44957 1.0E-25 BE16273 1.0E-25 BE16273 1.0E-25 BA7907 1.0E-25 BA7907 1.0E-25 BA7907 1.0E-25 AA58269 1.0E-25 AA58269 1.0E-25 AA58269 1.0E-25 BA7907 1.0E-25 AA7907 1.0E-26 AA7907 1.0E-26 AA7907 1.0E-26 AA9907 1.0E-26 AA9	7.0E-26 A 7.0E-26 A	6.0E-26 AF02930 6.0E-26 AA20613 6.0E-26 AL16321
Expression Signal Signal 3.37 7.11 4.32 7.11 1.91 1.91 1.91 1.91 1.91 1.91 1.91	7.99	1.42
ORF SEQ ID NO: 28522 21088 22043 22743 23774 23770 20138 23774 23765 23166 28467 28467 28797 287		21967 23025 29033
Exon SEQ ID NO: 11232 12144 12370 13896 13896 13896 13896 14638 19460 16496 16496 16496 16496 16496 16496 16496 16496 16496 16496 13808 13969 13	18731	12065 13223 18740
Probe SEQ ID NO: 8894 1325 2260 2260 2260 4096 4096 4096 7629 361 2384 27384 27384 2738 99143 99	9700	2178 3302 8932

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				_	_	_	_	T-		-			_	_			_			_ :		• •	_		_		
Single Exon Probes Expressed in Heart	Top Hit Descriptor	as38h08.x1 Barstead aorta HPLRB6 Homo saplens cDNA clone IMAGE:2319519 3' similar to WP:F49C12 11 CE03371	as38h08.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2319519 3' similar to WP:F49C12 11 CE03321	wg65e06.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2369988 3' similer to	Contains Alu repetitive element;	Home series instructions his first	Figure 3 depends upsurearn binding transcription factor, RNA polymerase I (UBTF), mRNA	DKFZo4341066 r1 434 (smoother: blees) Demo-	2730408.r1 Stratagene neurospithelium NT27AMI 937234 Homo sapiens CDNA clone IMAGE:648943 6' similar to childrang VITANIN V COCCANING.	2030f10.r1 Strategere colon (#937204) Homo sapiens cDNA done IMAGE:588427 5' similar to TR:C695374	2030f10.1 Strategene colon (#937204) Homo sepiens cDNA clone IMAGE:588427 5' similar to TR:G695374	ANSEADSEA WILL TOO THE TOTAL TO THE TOTAL THE	Wilderson Filtin MicC. 3/ Homo sapiens cDNA done IMAGE:4083278 5	i full of sapietis infect (MLL) gene, exons 1-3, and partial cds	GV2-PT0012-040400-124-005 PT0012 Homo sapiens cDNA	nn37405.s1 NCI_CGAP_GC5 Homo sepiens cDNA clone IMAGE:1086057 3' similar to conteins OFR #1	Urn repeauve element;	DKF7N588174 - 4 Eas (Miniscritis mRNA for action if the contract of	Homo saniens DNA for emitting and the saniens of th	to 89 a01 x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2186416 3' similar to contains Alu	Home carions 11170	Home supreme many class 1 region	OVA LITARSO OSSOCIATION AND SECURED DATES OF SECURITY AND SECURITY AND SECURITY OF SECURITY AND SECURITY AND SECURITY OF SECUR	DK 57-43-4140-30-123-a02 H 10538 Homo sapiens cDNA	MR2-BN0114-240500-030-030-030 Homo sapiens cDNA done DKFZp434H1910 5	Homo sapiens glyceralderyde-3-phosphate dehydronenasa (GADDL), DNA
gle Exon Pro	Top Hit Database Source	EST HUMAN	EST HUMAN	FCT UIMANI	EST HIMAN	-4.	EST HIMAN	EST HUMAN	EST HUMAN	EST HIMAN	TOT LE MAN	EST LIMAN	PACIFIC PACIFIC	EST LINAAN	EST HUMAN	COT LIBRARY	TA LIN	FST HIMAN	L	N	FOT LIBRARI	LA LA	TN	T HI INAAN	Т	7	
iuis	Top Hit Acessian No.	5.0E-26 AI708235.1	5.0E-26 AI708235.1			7657670	4.0E-26 BE266187.1	2	3.0E-26 AA115895.1	,	,				-	,		2				-				-	
	Most Similar (Top) Hit BLAST E Value	5.0E-26	5.0E-26	5.05-26	4.0E-26	4.0E-26	4.0E-26	3.0E-26	3.0E-26	3.0E-26 AA152464	3.0E-26 AA152464	3.0E-26	3.0E-26 A	3.0E-26 AW87565	3.0E-26 AW875651	3 DE-26 AA583173	2.0E-26 AL163282	2.0E-26 AL038099	2.0E-26 X86694.1	2.0E-26 D87675.1	2.0E-26 AI801412	20E-26 AF055066	2.0E-26 AB037859	1.0E-28 BE170371	1.0E-26 AL039363	1.0E-26 BE814995.	1.0E-26 AF261085.
	Expression Signal	3.33	3.33	1.71	1.52	3.77	3.74	1.5	2.41	1.19	1.19	4.35	2.18	1.99	1.89	10.55	5.61	3.36	4.26	2.88	4.55	1.82	2.19	2.36	1.39	0.84	16.79
	ORF SEQ ID NO:	20918	20919				28194	21740		23408	23409	26114	•	28951	28952	28984	20418		22924		28690			19927	21786	22282	1
	Exon SEQ ID NO:	11073	11073	19435	11430	17283	17944	11853	11880	13625	13625	15978	17998	18665	18665	18691	10600	11722	13118	18023	18420	18537	18962	10106	11894	12390	12521
	Probe SEQ ID NO:	1160	1160	9976	1525	7416	8053	1958	1987	3712	3712	6131	8108	8853	8853	8879	999	1825	3183	8135	8549	8720	9252	132	2001	2516	7654

Page 189 of 413 Table 4 Single Exon Probes Fynressed in 1

			_																							
Single Exon Probes Expressed in Heart	Top Hit Descriptor	MD3_UTDA62_160000 449_004 (ITSA62_1)	Purch 1945 135-901 H10487 Homo sapiens cDNA	CHRODINGS Chromosome 22 Line (Synonym: httd2) Homo sapiens cDNA clone DKFZp566C2146 5	Homo septiens MAGE-B2 (MAGE-B2), MAGE-B3), MAGE-B4, and MAGE-B4 (MAGE-B4), and MAGE-B4	MYONE STY Series, Complete dus MYONESIN 2 (WAPROTEIN) (165 KD TITIN-ASSOCIATED PROTEIN) (165 KD CONNECTIN- ASSOCIATED PROTEIN)	naa03c07xf NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3253644 3' similar to contains OFR.tf OFR repetitive element	W49c04x1 NCI_CGAP_Lu19 Homo sapiens cDNA done IMAGE:2406150 3' similar to contains THR.b2	Homo sapiens chromosome 24 sourced Disassoc	au87h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA done IMAGE:2783295 3' similar to gb:K00558	au87h08.x1 Schneider fetal brein 00004 Homo sapiens cDNA clone IMAGE:2783295 3' similar to gb:K00568	PM2-SM048-20000 002 -02 0100001;	ADP, ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE	HORD STATE MEN AND MAN (MINE)	M84-BT0388-250800-204 des BT2355-11	1751F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J1751 5' similar to	CM4.CT0315.00 ass any ormans.	CM1. CT0315-031239-003-407 CT0315 Homo sapiens cDNA	Himen endocement extension 1.100	his1412-XI Society Fat Visit Hono Sapiens cDNA done IMAGE:2975879 3' similar to TR:076040	Home savience Variation Control of the Control of t	AV72236E LITE Limit And Part Av72236E LITE Limit Av72236E LITE Limit Av72236E LITE Limit Av72336E LITE LIMIT Av7236E LITE LI	Himan ministration (200) 1511	R02131404 Et MILL MCC Et II.	60212149111 MIN MGC 56 U	Mus musculus sperm fall associated protein (Stap), mRNA
gle Exon Pro	Top Hit Database Source	EST HIMAN	ECT. LI MAN	EST HUMAN	L	SWISSPROT	EST HUMAN	EST HIMAN	NT	EST HUMAN	EST LIMAN	EST HIMAN	SWISSPROT	IN IN	EST HIMAN	ECT UINAAN	EST HIMAN	ST HIMAN	LN	ST HIMAN	Į.	EST HIMAN	L	EST HIMAN	EST HUMAN	5
	Top Hit Acession No.	1.0E-26 BE165980 1	1 0F-26 AI 038487 4	1.0E-26 H55093.1	9.0E-27 U93163.1	9.0E-27 P54296	9.0E-27 BF445556.1	•		17.1	8.0E-27 AW162737 1			57.1			9.1	9.1.		2.7	1			-		910569
	Most Similar (Top) Hit BLAST E Value	1.0E-26	1 0F-26	1.0E-26	9.0E-27	9.0E-27	9.0E-27	8.0E-27	8.0E-27	8.0E-27	8.0E-27	8.0E-27	8.0E-27 P12236	8.0E-27	8.0E-27	8.0E-27	8.0E-27	8.0E-27	7.0E-27	7.0E-27	7.0E-27	7.0E-27	6.0E-27	5.0E-27	5.0E-27	4.0E-27
	Expression Signal	2.75	3.17	1.84	3.11	3.48	3.97	3.09	4.13	18.87	18.87	0.98	3.31	0.91	3.12	4	1.68	1.68	1.22	2.09	4.22	207	6.21	2.92	2:92	1.54
	ORF SEQ ID NO:					28118		19787		21158	21159	21909	22874	23035		26088	27386	27387					28246	27970	27971	26080
	Exon SEQ ID NO:	16034	18146	ı	17342	19470	18812	9696	10486	11300	11300	12009	13073	13230	15122	15956	17186	17186	10602	14896	18020	19204	17999	17727	17727	15949
	Probe SEQ ID NO:	6089	8266	9493	7364	8027	9013	10	545	1395	1395	2121	3148	3309	6165	6196	7310	7310	899	5023	8132	9631	8109	7877	7877	6046
																			_							_

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Table 4

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Table 4

Single Exon Probes Expressed in Heart	Top Hit Database Source	hw17c11.x1 NOL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3183188 3' sImilar to TR:007314 O07314	Т			7	1	Т	T	FST LIMANI AVITAGE AD 1.	T	Lucino sapiens micha for KIAA0866 protein, complete cds			EST_HUMAN THR repetitive element;		\neg	EST_HUMAN 601300703F1 NIH_MGC_21 Homo sapiens cDNA done IMAGE:3635305 5	qf66f10.x1 Soares_testis_NHT Homo septens cDNA clone IMAGE:1755019 3' sImilar to gb:M19503 LINE-1 EST_HUMAN REVERSE TRANSCRIPTASE HOMOLOG (HUMAN):		Truin's sablens ornomiscent 9 duplication of the T cell receptor beta locus and trypsingen gene families	qf66f10.x1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1755019 3' similar to gb:M19503 LINE-1		7	HUMAN MK3-HT0713-280500-013-f09 HT0713 Homo sapiens cDNA Homo sapiens MHC class 1 regime
Single	Top Hit Acesslón No.	9.0E-28 BE348399 1	T		-		,		7866	11.00		T	,				4.0E-28 AW 195066.1 EST	T		F029308 1 NT		EST	<u> </u>	L S	NT
	Most Similar (Top) Hit BLAST E Value	9.0E-28	9.0E-28	9.0E-28	9.0E-78	9.0E-28	8.0E-28 AW15757	7.0E-28	7.0E-28	7.0E-28 AV735348	6.0E-28	6.0E-28 AB020673	6 OE-28 AA504582	E OF 30 Alphanol	5.0E-28 R79782 1	200	4.0E-28 A	4:0E-20 E	4.0E-28 AJ198941.1	4.0E-28 AF029308	4.0E-28 AB038241	4.0E-28 AI198941.1	3 0F.28 AE466260	3.0E-28 RF354030	3.0E-28 U53588.1
	Expression Signal	2.32	3.01	1.21	1.21	3.74	1,97	7.54	2.54	1.44	1.27	1.27	2.73	80 %	1.85	5	3 30	3	1.59	4 28	53.6	2.94	80	2.19	1.84
	ORF SEQ ID NO:		20089	24760	24761			20922	28660		23670	23671			23616	72347	22788		26359			26359		27193	28430
	Exon SEQ ID NO:	10109	10270	14986	14986	18866	19592	11077	18395	18836	13894	13894	19232	10277	13836	12455	12997		16199	18119	18248	16199	11169	17001	18183
	Probe SEQ (D NO:	136	308	5118	5118	9093	9418	1164	8523	9053	3987	3987	9673	315	3927	2584	3070		6336	8239	8371	8388	1262	7124	9306

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Table 4
Exon Probes Expressed in

Pote Exm Opt 5EQ Location Top Ht Account Top Ht Descript Top Ht Descript 9EQ D SEQ D NO. No. SEQ D NO. No. No. DAME Top Ht Descript Top Ht Descript 9EQ D SEQ D NO. No.						IIO	ואום בצחוו בונ	Single Exon Probes Expressed in Heart
19106 2.44 3.0E-28 AIB31991.1 EST_HUMAN 1.1062 2.0955 1.0 E-28 BEG0Z167.1 EST_HUMAN 1.1072 2.0955 1.0 E-28 AIS31991.1 EST_HUMAN 1.1072 2.0955 2.0 E-28 AIS31991.1 EST_HUMAN 1.1072 2.005.28 AIS31991.1 EST_HUMAN 1.1072 2.207 2.0 E-28 AF224699.1 NT EST_HUMAN 1.1060 2.1933 2.42 1.0 E-28 AF224699.1 NT I.1060 2.1933 2.42 1.0 E-28 AF224699.1 NT I.1060 2.1933 2.42 1.0 E-28 AF204699.1 NT I.1060 2.1933 2.42 1.0 E-28 AF301991.1 I.1060 2.1933 2.10 E-28 AF301991.1 I.1060 2.1933 2.10 E-28 AF301991.1 I.1060 2.1933 I.1060 2.193 I.1060	Probe SEQ ID NO:			Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit		Top Hit Descriptor
10067 19884 6.45 2.0E-28 BE062167.1 EST HUMAN 17072 2.0E-28 A1348634.1 EST HUMAN 15727 4.28 2.0E-28 A1348634.1 EST HUMAN 15727 4.28 2.0E-28 A7972305.1 EST HUMAN 17372 2.20 2.27 2.0E-28 AF224669.1 NT 17368 2.1233 2.42 1.0E-28 A7524669.1 NT 1.05 1.0E-28 A756431 NT 1.05 1.0E-28 A756431 NT A706431 NT A7	9489		1	2.44	3.0E-28		FST HIMAN	WJ98f07.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2410885 3' similar to contains Alu
11052 20905 10 2.0E-28 11073 NT NT 11073 NT NT NT NT NT NT NT N	83			6.45	2.0E-28	BE062167.1	EST HIMAN	RC1. BT026.1 22020.0 240 250 BT020.1
12304 22200 21 2.0E-28 Al348634.1 EST_HUMAN 15727 5.86 2.0E-28 AW972305.1 EST_HUMAN 15728 2.27 2.0E-28 AW972305.1 EST_HUMAN 1.0E-28 AR308744.1 EST_HUMAN 1.0E-28 AR308741.1 EST_HUMAN 1.0E-29 AW308741.1 EST_HUMAN	1149			10	2.0E-28	Y11107.3	NT NT	Homo saplens ITCB4 anno for it to 1.254 Homo saplens cDNA
15727	2427			21	2.0E-28	Al348634.1	EST HIMAN	qo35b06.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1910483 3' similar to contains L1.b2 L1
17379 5.86 2.0E-28 AW972305.1 EST_HUMAN 18688 28992 2.27 2.0E-28 AF224669.1 NT 11369 21233 2.42 1.0E-28 BF33236.1 EST_HUMAN 12060 21963 1.55 1.0E-28 BF33236.1 EST_HUMAN 12517 22407 1.03 1.0E-28 AF000985.1 NT 16565 3.02 1.0E-28 AF000985.1 NT 17524 2743 2.63 1.0E-28 AF000985.1 NT 17528 27753 5.15 1.0E-28 AF58431 NT EST_HUMAN 17528 27754 5.15 1.0E-28 AF58431 NT EST_HUMAN 18440 3.95 1.0E-28 AF68431 NT EST_HUMAN 19691 2.85 8.0E-29 AF68431 NT EST_HUMAN 19691 2.92 8.0E-29 AF66865 NT <t< td=""><td>. 5821</td><td>15727</td><td></td><td>4.28</td><td>2.0E-28</td><td>BF212905 1</td><td>EST HIMAN</td><td></td></t<>	. 5821	15727		4.28	2.0E-28	BF212905 1	EST HIMAN	
18688 28992 2.27 2.0E-28 AF224669.1 NT 11368 21233 2.42 1.0E-28 BF333236.1 EST_HUMAN 12660 21963 1.55 1.0E-28 BF333236.1 EST_HUMAN 12517 22407 1.03 1.0E-28 AF308744.1 EST_HUMAN 1655 3.02 1.0E-28 AF308744.1 EST_HUMAN 17528 27753 5.15 1.0E-28 AF308744.1 EST_HUMAN 17528 27753 5.15 1.0E-28 AF308744.1 EST_HUMAN 17528 27754 5.15 1.0E-28 AF3247.2 NT 18450 2.63 1.0E-28 AF3247.2 NT 19450 2.6 0.0E-29 AF064182.1 EST_HUMAN 19410 2.9 8.0E-29 Q00130 SWISSPROT 19410 5.08 7.0E-29 AF0663987.1 EST_HUMAN 19028 2.92 8.0E-29 Q00130 SWISSPROT 19076 1.86 6.0E-29 AF0663987.1 EST_HUMAN 19076 1.86 6.0E-29 AF0663987.1 EST_HUMAN	7528			5.86	2.0E-28	AW972305.1	EST HUMAN	EST384394 MAGE resemblences MACI Home control in th
11368 21233 2.42 1.0E-28 D38044.1 NT 12060 21963 1.55 1.0E-28 AF000995.1 NT 12060 21963 1.55 1.0E-28 AF000995.1 NT 16467 2.407 1.03 1.0E-28 AF000995.1 NT 16556 3.02 1.0E-28 AF38744.1 EST HUMAN 17528 2.7753 5.15 1.0E-28 A758431 NT 17528 2.7754 5.15 1.0E-28 A758431 NT 19485 1.62-28 AA0854182.1 EST HUMAN 19691 2.4896 2.6 9.0E-29 AV0663987.1 INT 19169 2.92 8.0E-29 AV0663987.1 EST HUMAN NT 19410 5.08 7.0E-29 AV0966447.1 EST HUMAN NT 19410 5.08 7.0E-29 AV0966447.1 EST HUMAN NT 19510 5.08 6.0E-29 BF968097.1 EST HUMAN NT 19676	8887	18698	28992	227	2.0E-28	AF224669.1	5	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
12060 21963 1.56 1.0E-28 BF333236.1 EST_HUMAN 12517 22407 1.03 1.0E-28 AF000995.1 NT 16565 3.02 1.0E-28 AF000995.1 NT 17214 27413 2.63 1.0E-28 AA308744.1 EST_HUMAN 17528 27753 5.15 1.0E-28 A758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 19485 1.62-28 AA054182.1 EST_HUMAN 19485 2.55 8.0E-29 AV063397.1 NT 1940 2.92 8.0E-29 AV063397.1 EST_HUMAN 19410 5.08 7.0E-29 AV063397.1 NT 19410 5.08 7.0E-29 AV086447.1 EST_HUMAN 19410 5.08 7.0E-29 AV086447.1 EST_HUMAN 19410 5.08 7.0E-29 BF568097.1 EST_HUMAN 19410 5.08 6.0E-29 BF568097.1 EST_HUMAN <td>1463</td> <td>11368</td> <td>21233</td> <td>242</td> <td>1.0E-28</td> <td>D38044.1</td> <td>TN</td> <td>Miman gane for At Tonnella Cals</td>	1463	11368	21233	242	1.0E-28	D38044.1	TN	Miman gane for At Tonnella Cals
12517 22407 1.03 1.0E-28 AF000995.1 NT 16565 3.02 1.0E-28 AF000995.1 NT 17214 27413 2.63 1.0E-28 AA308744.1 EST HUMAN 17528 27754 5.15 1.0E-28 AA308744.1 EST HUMAN 17528 27754 5.15 1.0E-28 A758431 NT 17528 27754 5.15 1.0E-28 A758431 NT 19485 1.0E-28 AA064182.1 EST HUMAN 19691 2.4896 2.6 9.0E-29 AV0663987.1 NT 19169 2.92 8.0E-29 Q00130 SWISSPROT 19410 5.08 7.0E-29 AV066347.1 EST HUMAN 1951 5.08 7.0E-29 AV066347.1 EST HUMAN 1952 6.52 6.0E-29 AV0663647.1 EST HUMAN 1954 5.08 7.0E-29 BF568097.1 EST HUMAN 1957 1.86 6.0E-29 BF568097.1 EST HUMAN 1954 7.61 5.0E-29 AV085647.1 EST HUMAN </td <td>2173</td> <td>12060</td> <td>21963</td> <td>1.55</td> <td>1.0E-28</td> <td>BF333236.1</td> <td>EST HIMAN</td> <td>OVA BITABA ASSASS ASS I SE</td>	2173	12060	21963	1.55	1.0E-28	BF333236.1	EST HIMAN	OVA BITABA ASSASS ASS I SE
16467 4.48 1.0E-28 11422885 NT 16556 3.02 1.0E-28 8922793 NT 17214 27413 2.63 1.0E-28 AA308744.1 EST HUMAN 17528 27754 5.15 1.0E-28 4758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 19485 1.43 1.0E-28 4758431 NT 19691 24896 2.6 9.0E-29 AV063397.1 INT 19169 2.92 8.0E-29 AV063397.1 INT INT 19410 5.08 7.0E-29 AV086447.1 EST HUMAN INT 19410 5.08 7.0E-29 AV086447.1 EST HUMAN INT 19510 5.08 6.0E-29 AV33352.1 NT INT 19076 1.86 6.0E-29 AL163203.2 INT INT 19407	2650	12517	22407	1.03	1.0E-28	AF000995.1	LA LA	Home services this the transfer of the transfe
16565 3.02 1.0E-28 B922793 INT 17214 27413 2.63 1.0E-28 AA308744.1 EST HUMAN 17528 27754 5.15 1.0E-28 4758431 INT 17528 27754 5.15 1.0E-28 4758431 INT 18840 3.95 1.0E-28 4758431 INT 19485 1.43 1.0E-28 4758431 INT 19691 24896 2.6 9.0E-29 AV0663987.1 INT 19169 2.92 8.0E-29 AV0663987.1 EST HUMAN 19410 5.08 7.0E-29 AV066397.1 EST HUMAN 19410 5.08 7.0E-29 AV086447.1 EST HUMAN 19410 5.08 7.0E-29 AV086447.1 EST HUMAN 1951 5.08 7.0E-29 BF568097.1 EST HUMAN 19076 1.86 6.0E-29 BF568097.1 EST HUMAN 19076 1.86 6.0E-29 BF568097.1 EST HUMAN 19076 7.61 5.0E-29 AV086541.1 EST HUMAN 15568 7.61 5.0E-29 AV08564	6587	16467		4.48	1.0E-28		Ę	Home series clarified to the motify Y isotorm (UTY) mRNA, alternative transcript 2, complete cds
17214 27413 2.63 1.0E-28 AA308744.1 EST HUMAN 17528 27754 5.15 1.0E-28 4758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 18840 3.95 1.0E-28 4758431 NT 19651 24896 2.6 9.0E-29 AV063397.2 NT 19671 2.92 8.0E-29 AV063397.1 EST HUMAN 19769 2.92 8.0E-29 AV063397.1 EST HUMAN 19410 5.08 7.0E-29 AV086447.1 EST HUMAN 19410 5.08 7.0E-29 AV086447.1 EST HUMAN 19410 5.08 7.0E-29 AV086447.1 EST HUMAN 19516 6.52 6.0E-29 AV086447.1 EST HUMAN 19076 1.86 6.0E-29 BF568097.1 EST HUMAN 14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AV0887541.1 EST HUMAN 15568 6.65 4.0E-29 AV0830.1 EST HUMAN	6675	16555		3.02	1.0E-28		Ę	Homo saniens handheling and the Land Control (H. sapiens) (LOC63091), mRNA
17528 27753 5.15 1.0E-28 4758431 NT 17528 27754 5.15 1.0E-28 4758431 NT 18840 3.95 1.0E-28 4758431 NT 19851 24896 2.6 9.0E-29 AV/663987.1 BST HUMAN 19169 2.92 8.0E-29 AV/663987.1 BST HUMAN 1148B 21349 0.91 7.0E-29 AV/966447.1 BST HUMAN 19510 5.08 7.0E-29 AV/966447.1 BST HUMAN 19528 3.08 6.0E-29 AV/966447.1 BST HUMAN 19579 1.86 6.0E-29 BF568097.1 BST HUMAN 19576 1.86 6.0E-29 BF568097.1 BST HUMAN 16945 7.61 5.0E-29 AL163203.2 NT 13119 7.61 5.0E-29 AV/98547.1 BST HUMAN 15568 6.65 4.0E-29 AV/98530.1 BST HUMAN	7346	17214	27413	2.83	1.0E-28	AA30874	TOT LIMAN	EST179615 HCC cell line (matastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to similar to
17528 27754 5.15 1.0E-28 4758431 III 18840 3.95 1.0E-28 AA054182.1 EST_HUMAN 19851 24896 2.6 9.0E-29 AW663987.1 EST_HUMAN 19169 2.92 8.0E-29 Q00130 SWISSPROT 1148B 21349 0.91 7.0E-29 AW968447.1 EST_HUMAN 19410 5.08 7.0E-29 AW968447.1 EST_HUMAN 19518 20325 6.52 6.0E-29 AI33352.1 NT 19078 3.88 6.0E-29 BE940436.1 EST_HUMAN 14807 0.98 5.0E-29 BA163203.2 NT 14807 0.98 5.0E-29 BA1855097.1 EST_HUMAN 13119 7.61 5.0E-29 AW887541.1 EST_HUMAN 15568 6.65 4.0E-29 AI752367.1 EST_HUMAN	7678	17528	27753	5.15	1.0E-28		NAWOU - SI	ופוסאושורוע
18840 3.95 1.0E-28 AA054182.1 EST_HUMAN 19485 1.43 1.0E-28 AAL163247.2 NT 19691 24896 2.6 9.0E-29 AW663987.1 EST_HUMAN 11488 21349 0.91 7.0E-29 AW96647.1 EST_HUMAN 19410 5.08 7.0E-29 AW96647.1 EST_HUMAN 19518 20325 6.52 6.0E-29 AB36748.1 EST_HUMAN 19076 1.86 6.0E-29 BE940436.1 EST_HUMAN 14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AW887541.1 EST_HUMAN 15568 6.65 4.0E-29 AF52367.1 EST_HUMAN	7678	17528	27754	5.15	1.0E-28		Ę	Home series gamma-glutamytransferase-like activity 1 (GGTLA1), mRNA
19485 1.43 1.0E-28 AL163247.2 IT 19691 24896 2.6 9.0E-29 AW663987.1 EST HUMAN 11488 21349 0.91 7.0E-29 AW96647.1 EST HUMAN 19410 5.08 7.0E-29 AW96647.1 EST HUMAN 19518 20325 6.52 6.0E-29 AI33352.1 NT 19028 3.88 6.0E-29 BE940436.1 EST HUMAN 14807 0.98 5.0E-29 BL163203.2 NT 14807 0.98 5.0E-29 AL163203.2 NT 13119 1.68 4.0E-29 AN887541.1 EST HUMAN 15568 6.65 4.0E-29 AI752367.1 EST HUMAN	8028	18840		3.95	1.0E-28	AA054182.1	EST HUMAN	The septions of the seption of the s
19691 24896 2.6 9.0E-29 AW663987.1 EST HUMAN 19169 2.92 8.0E-29 Q00130 3WISSPROT 11488 21349 0.91 7.0E-29 AW96847.1 EST HUMAN 19410 5.08 7.0E-29 AW96847.1 EST HUMAN 10518 20325 6.52 6.0E-29 AB36748.1 EST HUMAN 19076 1.86 6.0E-29 BE940436.1 EST HUMAN 14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST HUMAN 13119 1.68 4.0E-29 AW887541.1 EST HUMAN 15568 6.65 4.0E-29 AI752367.1 EST HUMAN	9797	19485		1.43	1.0E-28	2	L	Homo sepions Altonome 24
19169 2.92 8.0E-29 Q00130 SWISSPROT 11488 21349 0.91 7.0E-29 AW966447.1 EST_HUMAN 19410 5.08 7.0E-29 AM966447.1 EST_HUMAN 10518 20325 6.52 6.0E-29 AR36748.1 EST_HUMAN 19076 1.86 6.0E-29 BE940436.1 EST_HUMAN 14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AN752367.1 EST_HUMAN 15568 6.65 4.0E-29 BE164930.1 EST_HUMAN	8892	19691	24896	2.6	9.0E-29	7.1	EST HUMAN	hi76a06 x1 Spares NET 7 GBC s4 (1
1148B 2/1349 0.941 7.0E-29 AW96647.1 EST_HUMAN 19410 5.08 7.0E-29 AJ132352.1 NT 10518 20325 6.52 6.0E-29 AI336748.1 EST_HUMAN 19028 3.88 6.0E-29 BE940436.1 EST_HUMAN 14807 0.98 5.0E-29 BF568097.1 EST_HUMAN 13119 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AN752367.1 EST_HUMAN 15568 6.65 4.0E-29 BE164930.1 EST_HUMAN	9585	19169		2.92	8.0E-29		SWISSPROT	HYPOTHETICAL GENE 50 PROTEIN
19410 5.08 7.0E-29 AJ132352.1 NT 10518 20325 6.52 6.0E-29 BE940436.1 EST HUMAN 19028 3.88 6.0E-29 BE940436.1 EST HUMAN 14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST HUMAN 13119 1.68 4.0E-29 AN752367.1 EST HUMAN 15568 6.65 4.0E-29 BE164930.1 EST HUMAN	1584	1488	21349	0.91	7.0E-29		EST HUMAN	EST378521 MAGE resequences MAGILL
10518 20325 6.52 6.0E-29 Al936748.1 EST_HUMAN 19028 3.88 6.0E-29 BE940436.1 EST_HUMAN 14807 0.98 6.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AN752367.1 EST_HUMAN 15568 6.65 4.0E-29 BE164930.1 EST_HUMAN	9942	19410	1	5.08	7.0E-29		F	Rattus norvegicus mRNA for 45 kDa secretirus marteis.
19028 3.88 6.0E-29 BE904436.1 EST_HUMAN 19076 1.86 6.0E-29 BF568097.1 EST_HUMAN 14807 0.98 5.0E-29 BF568097.1 EST_HUMAN 16945 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AI752367.1 EST_HUMAN 15668 6.65 4.0E-29 BE164930.1 EST_HUMAN	580	10518	20325	6.52	6.0E-29		FOT LIMAN	wp69b01x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2456985 3' similar to TR:015475
19076 1.86 6.0E-29 BF568097.1 EST HUMAN 14807 0.98 6.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST HUMAN 13119 1.68 4.0E-29 AI752367.1 EST HUMAN 1568 6.65 4.0E-29 BE164930.1 EST HUMAN	9353	19028		3.88	6.0E-29		EST HIMAN	POST IT TO SO SAGE SEE SEE SEE SEE SEE SEE SEE SEE SEE S
14807 0.98 5.0E-29 AL163203.2 NT 16945 7.61 5.0E-29 AW887541.1 EST_HUMAN 13119 1.68 4.0E-29 AI752367.1 EST_HUMAN 15568 6.65 4.0E-29 BE164930.1 EST_HUMAN	9438	19076		1.86	6.0E-29		Т	Should also and the second of
16945 7.61 5.0E-29 AW887541.1 EST HUMAN 13119 1.68 4.0E-29 A1752367.1 EST HUMAN 6.65 4.0E-29 BE164930.1 EST HUMAN	4928	14807		0.98	5.0E-29	2		Home control in 1, 1015 C. 42 Homb Sapiens CDNA clone IMAGE: 4300079 5
13119 1.68 4.0E-29 AI752367.1 EST HUMAN 15568 6.65 4.0E-29 BE164930.1 EST HUMAN	7068	16945		7.61	5.0E-29	-		RC3-OT0091-170300-011-c12 OT0091 Home capitans critisms
15568 6.65 4.0E-29 BE164930.1 EST HUMAN	3194	13119		1.68	4.0E-29			WALCH Straight of the Company of the
	5656	15568		6.65	4.0E-29	_	Т	OVALETO A 24 September 1 September 1 September 1 September 20 Septembe

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Table 4

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Table 4 ·
Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Exon ORF SEQ Expression (Top) Hit Acession No: Signal No: Signal Value Source Source Surce Surce Surce Surce Surce Surce Surce Source Surce Source Surce Source Surce Source Source Source Surce Source 1.16 7.0E-30 BE091133.1 EST HUMAN PM4-BT0724-150400-004-d11 BT0724 Homo sapiens cDNA	Т	11637 21505 1.26 6.0E-30 D25303.1 NT Human mRNA for integrin alpha subunit, complete cds	6.0E-30 BE008026.1 EST HUMAN	LZ.	 07007	3.55 5.0E-30 AL163278.2 INT	5.0E-30 AL163210.2 NT	TN	21880 1.64 4.0E-30 AW937471.1 EST HUMAN	21881 1.64 4.0E-30 AW937471.1 EST HUMAN	38.1 EST_HUMAN	4993c05x1 Soares, total, fetus, Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1938920 3' similar to contains MER29.b2 MER29 repetitive element:	Ę	28675 2.38 3.0E-30 P34056 SWISSPROT	20411 1.18 2.0E-30 AW857315.1 EST HUMAN	2.32 2.0E-30 F08688.1 EST_HUMAN	21234 5.91 2.0E-30 BE175877.1 EST_HUMAN	22438 10.97 2.0E-30 BE765232.1 EST_HUMAN	22609 6.38 2.0E-30 AF114156.1 NT	23419 · 2.11 2.0E-30 AW 206581.1 EST_HUMAN	24346 1.72 2.0E-30 BE298945.1 EST_HUMAN	24347 1.72 2.0E-30 BE298945.1 EST HUMAN	2.0E-30 C18939.1 EST_HUMAN	1000	COCC COCCO DECOCO COCCO COCCO	27086 1.55 2.0E-30 BE670617.1 EST_HUMAN		
		11403	11454			11454		18141						11048															

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		ns THR.b3		contains															alternatively			,				37 Q13537			
Single Exon Probes Expressed in Heart	Top Hit Descriptor	ha33d06x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR renetitive element	C18939 Human placenta cDNA (TFullwara) Homo saniens cDNA Alone CEN 570004 51	hd30b04.x1 Scares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:2910991 3' similar to contains	Homo sapiens chromosome 21 segment HS21Cons	ac77b08.s1 Statagene lung (#937210) Home seriens of NA along 144 OF series at	602022560F1 NCI CGAP Bin67 Home sepiens cONA close IMACE: 445264 51	Homo sapiens methionine aminopeptidase; eIF-2-associated na? (MNDED) mBNA	EST186868 HCC cell line (matastasis to liver in mouse) II Homo saniens CINIA & m.d.	601809932F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040694 6	CHR220532 Chromosome 22 exon Homo sabiens CDNA clone C22 728 5	HSC05F032 normalized Infant brain cDNA Homo saciens cDNA clone c-05/03 3*	Homo sapiens hypothetical protein FL J20420 (FL 120420) PRIA	Homo sapiens chromosome 21 segment HS21Chns	EST84555 Colon adenocarcinoma IV Homo sanions CINA 5' and	hw05a11.x1 NCI CGAP 1 1/24 Homo sanians COMA class MAACE SANAGES	hw05a11.x1 NC CGAP 11.24 Homo saniens CDNA clare INVACE 2012 3	Human lambda-Immunoclobulin constant region complex (gamillac)	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial ods, alternatively	Homo cardens Mile alone 4 maring	AU119105 HEMBA1 Home conjune contact the contact of	ROS-BT0377-091299-031-0712 BT0377 Home Activity BN14	601433087F1 NIH MGC 72 Homo senions child All III MACH COLORS	Homo sapiens fore I DNA fornisomerse and man and a	Homo saplens type I DNA topoisomerase name aver 8	7k08f04x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3443479 3' similar to TR:Q13537 Q13537	Homo saplens Xa bseudosulosamal region; segment 1.	POLYPEPTIDE N-ACETYLGALACTOSAMINYLTRANSFERASE (PROTEIN-UDP ACETYLGALACTOSAMINYLTRANSFERASE) (UDP-GALNAC:POLYPEPTIDE, N-	ACELITICALACTOSAMINYLTRANSFERASE) (GALNAC-T1)
le Exon Probe	Top Hit Database Source	EST HIMAN TH	T	EST HUMAN M	Т	T-HUMAN	Т		Г		,	T_HUMAN		比 N	EST_HUMAN ES	EST HUMAN hw	Т	Т	子 E		T HUMAN	Т	Γ	Т		I —	NT	PO AC AC AC AC	
Sillo	Top Hit Acession No.	791.1	+-	397.1				3091		30.1	1	1	23389	38.2	37.1	17.1		_	6.0E-31 AF223391 1					-	1	5.0E-31 BE056540 1			
	Most Similar (Top) Hit BLAST E Value	2.0E-30 AW470	1.0E-30 C18939	1.0E-30 AW468	1.0E-30	1.0E-30	1.0E-30 BF3477	1.0E-30	1.0E-30./	1.0E-30	1.0E-30 H55593.	9.0E-31 Z38293.	8.0E-31	8.0E-31	7.0E-31 AA3726	7.0E-31	7.0E-31 BE32651	7.0E-31 X51755.	6.0E-31	6.0E-31	6.0E-31	6.0E-31	6.0E-31 BE89448	5.0E-31 M60694.	5.0E-31 M60694.	5.0E-31 B	4.0E-31	4.0F-34 O10473	10-01
	Expression Signal	4.47	10.22	1.6	2.92	3.24	2.57	1.03	0.93	2.32	5.1	2.04	1.64	5.14	1.72	1.7	1.7	2.56	2.79	3.68	2.11	1.88	1.78	2.85	. 2.85	1.21	3.78	70,1	
	ORF SEQ ID NO:	27889	20069	20281	20457	21953	22187	22699	22736	26582			20820			22392	22393	25272			28255	25351		18973	19974			21357	+
	Exon SEQ ID NO:	17652	10249	10469	10632	12052	1228	12300	12943	1643	CLOSI	16890	10977	12242	10627	12500	12500	19168	13539	16618	18008	18926	19541	10157	10157	16793	10519	11498	1
	Probe SEQ ID NO:	7802	284	527	669	2165	2413	2873	3075	6545	3/3	933	1	2362	694	2633	2633	9583	3625	6739	8120	9191	9319	185	185	6915	581	1694	4775

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Cingle Lyon Flobes Lybressed III Healt	ORF SEQ Expression (Top) Hit Top Hit Acession Database Control Signal BLAST E No. Source Source	1.38 4.0E-31 5730038 NT Homo saplens SET domain and mariner transposase fusion gene (SETMAD) would	1.52 4.0E-31 11430273 NT	1.38 4.0E-31 AB008681.1 NT	22314 1.42 3.0E-31 6005871 NT	26366 9.03 3.0E-31 4826853 NT	26448 1.38 3.0E-31 11420329 NT	1.95 3.0E-31 AL163206.2 NT	27585 2.86 3.0E-31 D14523.1 NT	28167 2.01 3.0E-31 P11174 SWISSPROT	6.36 3.0E-31 BF0353Z7.1 EST HUMAN	21647 1.83 2.0E-31 AW838171.1 EST HUMAN	21955 1.31 2.0E-31 AI393388.1 EST HUMAN	22074 2.18 2.0E-31 AL119245.1 EST_HUMAN	22164 4.4 2.0E-31 AA458824.1 EST HUMAN	25483 3.6 2.0E-31 BE350127.1 EST HUMAN	1.8 2.0E.31 AA877764.1 FST HIMAN	27385 3.99 2.0E-31 7681535 NT	27774 1.27 2.0E-31 AV710948.1 EST HUMAN	27775 1.27 2.0E-31,AV710948.1 EST HUMAN	27883 2.17 2.0E-31 BE408611.1 EST HUMAN	27884 2.17 2.0E-31 BE408611.1 EST HUMAN	2 2.0E-31 AF148512.1 NT	1.81 2.0E-31 AI114527.1 EST HUMAN	19794 8 34 1 0E.34 1 CE.34 1 N	21403 2 1 0E-31 OSS105.1	21404 2 1.0E-31 OB5371 SWISSPROT	21405 2 1.0E-31 095371 SWISSPROT	24209 1.01 1.0F.34 AI 194378 1 EST LIMMAN
-					22314	26366	26448		27585	28167		21647	21955	22074	22164	25483		27385	27774	27776	27883	27884			19794	21403	21404	21405	24200
	Exon SEQ ID NO:			19259	12423	16204	16286	16624			18366			12174	12269	15421	17123	17185			17847			19759	10002	1		ı	100777
	Probe SEQ ID NO:	2759	9604	9718	2550	6341	6425	6745	7525	8028	8493	1875	2167	2292	2391	5502	7246	7309	7700	7700	7677	7677	9292	9431	16	1645	1640	1640	AKAK

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	1			П	1				1-	1	l 23		ĺ			~	ı	Γ		T			4	14		П	Г	
Single Exon Probes Expressed in Heart	Top Hit Descriptor	DKF7n547B235 11 547 (curamum: http://lim	MR3-ST020-15-0-17 (Synolyth: Ilibit) Homo sapiens CUNA clone DKFZp547B235 5	Homo saplens minisatellite ceb 1 reneat review	qf2th03.x1 NCI_CGAP_Brn25 Homo sepiens cDNA clone IMAGE:1750709 3' similar to TR:Q16595	Himan familial Altheimer's disconne (STMS)	AV723976 HTR Home capiens and alone UTD A Act of The	oz15a09.x1 Spares fetal liver snleen 1NELS S1 Long and 1	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE MEMBRANE PROTEIN OF 121 (KORE MEMBRANE PROTEIN OF 121)	Human chromosome 22 immunoglobulin V(K)I gene, part. with 5' breakpoint between orphon and neighbouring non-amplified region	tm34a10.x/ NCI_CGAP_NEW Kid11 Homo sapiens cDNA clone IMAGE:2159994 3' similar to contains MER29.t3	601511530E1 NIH MGC 71 Home continued to the continued to	Homo sapiens PRO1181 mPNA	Homo sapiens chromosome 24 section 1 1020 and	Homo sapiens AT-hinding fremoning a feet of the second of	Homo sapiens AT-hinding transmission (ATBF1), mRNA	Homo sapiens El Li dene nortial	AV731500 HTE Home sentence only a little sentence of the sente	AV758634 BM Homo saniens cDNA clone B11FARC07 5	AV758634 BM Homo sapiens cDNA clone BMFBRH12 5	295a07.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to	601156285F1 NIH MGC 21 Homo comions CDNA -1 INVOIT CAREER AT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (hithorax (Drosophila) homolog); translocated to, 4	GRATESPEE MILITARY	601173634E1 NIH MCC 47 LICENS CHINA CIONE IMAGE:3139701 5	H. sabiens mRNA for muscla	H.saplens mRNA for myosin
Jie Exon Pro	Top Hit Database Source	EST HUMAN	EST HIMAN	NT	EST HIMAN	LN	EST HUMAN	EST HUMAN	SWISSPROT	IN	EST HIMAN	EST HIMAN	NT	LZ			LZ LZ	ST HUMAN	EST HUMAN	EST_HUMAN	ST HIMAN	EST HUMAN	<u> </u>	<u> </u>	FST HIMAN	EST HIMAN	L	N
ŭio	Top Hit Acession No.	AL134376.1	679.1	27.1		-	976.1			-	6.0E-32 AI478104.1				2574	11432574 NT	-	3.0E-32 AV731500.1			3.0E-32 AA777621.1	96.1	5174574	5474574 NT	3.0E-32 BE279086 1	-		
	Most Similar (Top) Hit BLAST E Value	1.0E-31 AL134	1.0E-31 AW391	1.0E-31 AF0487	1.0E-31	9.0E-32 U5087	9.0E-32	8.0E-32 A10567	7.0E-32 P52591	7.0E-32 X17283.	6.0E-32	6.0E-32	5.0E-32	4.0E-32	4.0E-32	4.0E-32	3.0E-32 Y17293	3.0E-32/	3.0E-32/	3.0E-32/	3.0E-32	3.0E-32 BE2790	3.0E-32	3.0E-32	3.0E-32B	2.0E-32 BE29661	2.0E-32 Z38133.	2.0E-32 Z38133.
	Expression Signal	1.01	3.15	1.87	2.72	0.99	2.34	3.32	1.17	2.77	0.9	1.5	29.57	1.74	2.82	2.82	3.4	7.67	6.73	6.73	8.08	3.04	2.43	2.43	4.94	0.91	19.01	19.01
	ORF SEQ ID NO:	24210	24927		28411			21815	24426		22456		20779		26510	26511	20213	21210	27477	27478	28421		24882	24883		24454	25929	25930
	Exon SEQ ID NO:		15159	15635			i	11923	14639	18972	12566	16222	10936	10839	16342	16342	10392	11343	17271	17271	18176	18995	15090	15090	19314	14667	15806	15806
	Probe SEQ ID NO:	4535	5235	5728	8288	2835	0009	2032	4754	9268	2702	6359	1018	915	6484	6484	84	1438	7404	7404	8297	9294	9655	9655	9802	4783	5900	2300

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NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
16894	26884	3.41	2.0E-32	2.0E-32 AA114294.1	EST HUMAN	zn66c08.r1 Stratagene Hel-a cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
16694			2.0E-32	2.0E-32 AA114294.1	EST HUMAN	zn66c08.r1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:563150 5'
19385	25175	1.61	2.0E-32	2.0E-32 AV736449.1	EST_HUMAN	AV736449 CB Homo sapiens cDNA clone CBFBIA08 5'
19385	25176	1.61	2.0E-32	2.0E-32 AV736449.1	EST_HUMAN	AV736449 CB Homo septens cDNA clone CBFBIA08 5'
3055 12982		1.06	1.0E-32	BE74329	EST_HUMAN	601573207F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834433 5'
6198 15958	26090	7.04	1.0E-32	1	1439789 NT	Homo sapiens chromosome 11apen reading frame 9 (C110RF9), mRNA
6997 16874	27065	5.18	1.0E-32	1.0E-32 AA720574.1	EST_HUMAN	rw21g02.s1 NCI_CGAP_GCB0 Homo sepiens cDNA clone IMAGE:1241138 3' similar to contains THR,t3 THR repetitive element ;
3435 13352		4.98	9.0E-33	9.0E-33 BE327112.1	EST_HUMAN	hw07c05x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:3182216 3' similar to TR:088539 O88539 WW DOMAIN BINDING PROTEIN 11.;
5867 15773		4.19	9.0E-33	9.0E-33 AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
7103 16980	27172	1.99	9.0E-33	9.0E-33 BF347229.1	T HUMAN	602021164F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4156670 57
18065		5.89	9.0E-33		NT	Homo sapiens chromosome 21 segment HS21C080
54 10041	19850	2.06	7.0E-33	5031736 NT	TN	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
54 10041	19851	2.06	7.0E-33	5031736 NT	NT	Homo sapiens short-chain alcohol dehydrogenase family member (HEP27) mRNA
2115 12004	21902	2.71	7.0E-33	7.0E-33 AI590115.1	EST_HUMAN	to12b09.x1 NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2178809 3' similar to contains OFR.t1 OFR repetitive element;
2612 12480		8.4	7.0E-33	7.0E-33 AV730056.1	EST_HUMAN	AV730056 HTF Homo sapiens cDNA clone HTFAVE06 5'
2800 11573	21439	1.78	7.0E-33		EST_HUMAN	AV730015 HTF Homo sapiens cDNA clone HTFANF08 5'
		12.85	7.0E-33		EST_HUMAN	EST383396 MAGE resequences, MAGL Homo sapiens cDNA
			7.0E-33		EST_HUMAN	602021164F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4156670 5'
8573 18441	28709	2.15	7.0E-33	7.0E-33 AW971568.1	EST HUMAN	EST383657 MAGE resequences, MAGL Homo sapiens cDNA
9274 18978	25322	3.43	7 0F-33	7 0F.33 AA601418 1	EST HIMAN	no16h01.s1 NCI_CGAP_Phe1 Homo sepiens cDNA clone IMAGE:1100881 3' similar to contains L1.t1 L1 in nanetitive element:
1			6.0E-33	T	LN LN	Homo sapiens chromosome 21 segment HS21C085
	27059		6.0E-33		Ę	Human glyceraldehyde-3-phosphate dehydrogenase (GAPDH) gene, complete cds
7049 16926		2.57	6.0E-33	11429198 NT	N	Homo sapiens similar to RAD23 (S. cerevistae) homolog B (H. sapiens) (LOC63277), mRNA
7750 17600	27822	1.24	6.0E-33	6755609 NT	FN	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
7750 17600	27823	1.24	6.0E-33	6755609 NT	IN	Mus musculus SRY-box containing gene 6 (Sox6), mRNA
		1.78		5.0E-33 BF373515.1 EST_	EST_HUMAN	QV1-FT0189-100700-271-a02 FT0169 Homo sapiens cDNA
J				11141884	NT	Homo saplens solute carrier family 5 (choline transporter), member 7 (SLC5A7), mRNA
	21626		5.0E-33	4507208 NT	NT	Homo saplens spermidine synthase (SRM) mRNA
1856 11752		1.37	5.0E-33	4507208 NT	NT	Homo sapiens spermidine synthase (SRM) mRNA

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Single Exon Probes Expressed in Heart

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			_	-	_	_	_	_					_							-		<u>, -</u>	-			:			<u>. </u>		Jerren, JABIN.
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	AV727809 HTC Hamo saniens cDNA clone HTCCNC13 F	Homo sapiens Xa pseudoautosomal radion: segment 1/9	Vd15e05.r1 Soares fetal liver solven 1NF S Homo series CNNA class 188 OF Jones 20	W14c10.r1 Spares placents Nh2HP Homo contents CDNA clara 1846 CE 3 200 S	Human G2 protein mRNA, partial cds	Human G2 protein mRNA nartial cde	Mus musculus DAB/2.1 hair-spanific (harl 4) zono	Homo sapiens New38-binding protein New 97 (1 CC4220) DNA	Human splicing factor SRn554 (SRn 55) work and the Jan	Rather investigation of specific (10 specific complete case	Homo saplens mRNA for KIAA435 profein and an analysis of the complete cos	Homo sabiens chromosome 21 segment HS210000	194-06 x NCI CCAP Programmer 102 100 March 188 Control	Home seniors brookled problem of 14000 (FF 14000)	SOLITOR STATE AND MICE PROPERTY OF THE STATE	ADP,ATP CARRIER PROTEIN, LIVER ISOFORM T2 (ADP/ATP TRANSLOCASE 3) (ADENINE	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	regions	Domesting White White White Wild Street Wild Wild Wild Wild Wild Wild Wild Wild	From Sapiens Win I sprecursor (Win I 3) mRNA, complete cds	MRR-CTONER 280000 002 444 CTOSES U	6014844470F1 NIH MGC 60 U	60/484430F1 NIH MGC 60 Dome control splints control in the control	CM4-HT0193-R8109-022-06 HT0193-BENEAR CIONE IMAGE::3886999 5	DKFZ056441563 41 564 (signam, Pift.) U	Homo sapiens chromosome 24 segment USA CAA	h77506 VINC CGAP G11 Home semines abus 11-11-114 of consequents	Homo sapiens prohibitin (PHR) mRNA	naa33a08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912 075912 DIACYLGLYCEROL KINASE IOTA.;
gle Exon Prol	Top Hit Database Source	TN	EST HUMAN	Z E	EST HUMAN	EST HUMAN	N L	Į.	Ľ	IN	N.	L	LN	NT	EST HUMAN	NT	FST HIMAN	TOGGSSIMS		NH	FIN	EST HIMAN	EST HIMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	LN	EST HUMAN		T_HUMAN
Sin	Top Hit Acession No.	1.0E-33 AF003528.1	1.0E-33 AV727809.1	9.0E-34 AJ271735.1	7.0E-34 T70845.1	H12866.1	U10991.1	U10991.1	U03686.1	7706500 NT	U30883.1	AF078779 1	AB037856.1	5.0E-34 AL163209.2	Al804667.1	4.0E-34 8922807 NT	BF035327.1	P12238			I	1	W845706.1	1.0E-34 BE874052 1				0.2	02.1	1190	8.0E-35/BF589937.1
	Most Similar (Top) Hit BLAST E Value	1.0E-33	1.0E-33	9.0E-34	7.0E-34	7.0E-34 H12866.	6.0E-34 U10991	6.0E-34 U10991	6.0E-34	5.0E-34	5.0E-34 U30883.	5.0E-34 AF0787	5.0E-34	5.0E-34	4.0E-34	4.0E-34	3.0E-34 BF0353	1.0E-34 P12238	20.110	1 0F-34	1 0F-34	1.0E-34 BE07141	1.0E-34 AW8457	1.0E-34	1.0E-34	1.0E-34	1.0E-34/	1.0E-34 AL16321	9.0E-35/	8.0E-35	8.0E-35
	Expression Signal	3.04	1.34	2.09	1.98	3.08	1.46	1.48	4.	2.23	4	1.18	2.12	2.01	2.11	0.98	4.81	8.56	1 78	82.0	0.78	4.02	0.86	1.89	1.99	3.87	8.89	2.92	1.26	24.25	3.3
	ORF SEQ ID NO:		25220		21198		20225	20226	25340		24631	27215	28186		21735	22441		.21254	23320	23661	23662			25743	25744	27226	27658		23296		21475
	Exon SEQ ID NO:	9994	19278	19399			10406	10406	18903	11734	14868	17021	17937	18446	11848	12552	18365	11393	13535	13886	13886	14277	14799	15639	15639	17032	17442	19307	13508	10189	11604
	Probe SEQ ID NO:	9723	9754	9927	1427	8340	463	<u>දි</u>	9153	1837	4993	7144	8046	8278	1953	2687	8492	1488	3621	3979	3979	4381	4920	5731	5731	7155	7591	9746	3264	219	1703

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Single Exon Probes Expressed in Heart

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Cingle Lyon Forces Expressed III near	Top Hit Descriptor	nea33e08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3258134 3' similar to TR:075912 075912 DIACYLGLYCEROL KINASE IOTA .	601809588F1 NIH MGC 18 Homo saniens cDNA close IMA CE 4040324 F	601236468F1 NIH MGC 44 Homo saniens cDNA clune IMACE 3808513 51	602184624T1 NIH MGC 42 Homo saniens cDNA clone IMAGE-4300613 5	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA	ah53h03.s1 Soares testis NHT Homo sapiens cDNA clone 130g3g7 3'	Homo sapiens zinc finger protein 208 (ZNE208) mRNA	Homo saplens triple functional domain (PTPRE Inheraction) (TRIO) mRNA	Homo sapiens mRNA for KIAA1365 protein, partial cds	H.sapiens immunoglobulin kappa light chain variable region L14	Homo sapiens clk2 kinase (CLK2), propin1, cote1, glucocerebrosidase (GBA), and metaxin genes, complete	ods; metaxin pseudogene and glucocerebrosidase pseudogene; and thrombospondin3 (THBS3) gene, partial ods	601431984F1 NIH MGC 72 Homo sablens cDNA clone IMAGE 3917229 57	4g38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone INACE:1837448.3' similar to SW.Y249_HUMAN Q92539_HYPOTHETICAL PROTTEN VIA ANALY	qg38c05.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837448 3' similar to	SW:Y249_HUMAN Q92539 HYPOTHETICAL PROTEIN KIAA0249.;	ANSANZACE ANIIL MAC 2010 Spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:428015 5'	vo 1097 I Nin_ Micc_ 10 Homo saptens cDNA ctone IMAGE:3350405 5' yellow in the saptens cDNA ctone IMAGE:241236 F similar to contained.	PTR5 repetitive element;	601300705F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635401 5	ht09g01.x1 NCI_CGAP_Kid13 Homo saplens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element:	DKFZp434_148 r1 434 (synonym: htes3) Homo saniens cDNA close DKEZz, 2011 420 E1	601125260F1 NIH MGC 8 Home saniens citiva chare MAAGE-3246662 F	Homo saniens phospholinid examples 1 dans complete 23	MR1-TN0045-130900-010-e01 TN0045 Homo sapiens cDNA	7n25a09.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBI 2	7n25a09.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3565361 3' similar to TR:Q9QZH7 Q9QZH7 F-BOX PROTEIN FBL2.;
מופ ראסוו דינט	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	EST HUMAN	닐	LN LN	ΙN	N-		L	EST HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	אואוסטרי ופים	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT.	EST HUMAN	EST HUMAN	EST_HUMAN
5	Top Hit Acession No.	8.0E-35 BF589937.1	8.0E-35 BF183195.1	8.0E-35 BE378480.1	8.0E-35 BF569282.1	11425417 NT	6.0E-35 AA757115.1	TN 5265009	6005921 NT	6.1	5.0E-35 X63392.1		5.0E-35 AF023268.1	2.1	5.0E-35 AI208765.1		5.0E-35 AI208765.1	T			4.0E-35 BE409102.1	7.		2	 -			3.0E-35 BF433100.1
	Most Similar (Top) Hit BLAST E Value	8.0E-35	8.0E-35	8.0E-35	8.0E-35	7.0E-35	6.0E-35	6.0E-35	6.0E-35	6.0E-35	5.0E-35		5.0E-35	5.0E-35	5.0E-35	1	5.0E-35	0.0E-35	201	4.0E-35	4.0E-35	4.0E-35	4.0E-35	3.0E-35	3.0E-35/	3.0E-35	3.0E-35	3.0E-35
	Expression Signal	3.3	3.09	ဧ	3.49	1.52	1.28	1.78	3.6	2.7	2.29		2.2	3.14	2.18	;	2,18	14 91		5.1	2	1.82	6.84	9.63	2.42	1.06	22.73	22.73
	ORF SEQ ID NO:	21476	24435					21699	26676		21454		23992		26848	0700	20849	21186		21552	+			21324		24465	24971	24972
	Exon SEQ ID NO:	11604	14646				11296	11820	16490	17548	11583		14208	16640	16658	48850	18389	11321		116/5	1011	16144	16835	11466	12167	14678	15197	15197
	Probe SEQ ID NO:	1703	4761	8075	9265	2905	1391	1925	6610	7698	1681		4311	6761	6779	8770	8517	1415		17/6	7550	6280	6957	1561	2283	4793	5275	6275

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens calclum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	K6932F Human fetal heart, Lambda ZAP Express Homo saplens cDNA clone K6932 5 similar to REPETITIVE ELEMENT	A971F Heart Homo sepiens cDNA done A971	Homo sapiens mRNA for Gab2, complete orls	Homo sapiens Grb2-associated binder 2 (KIAA0571) mRNA	Homo saplens Grb2-essociated hinder 2 (KI A00574), miles	Homo saplens mRNA for KIAA0895 profein nartial cals	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project≕TCBA Homo sapiens cDNA clone TCBAP4328	TCBAP2E4328 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens	CUINA cione I CBAP4328	1941 Ba12 RT Soares fetal liver spleen 1NFLS Homo sapiens cDNA done IMAGE:274079 5	Two-bittories to the company of the	Trisapiens PRUS-2/ mRNA	Home canion C-13	numo sapiens orbz-associated binder 2 (KIAA0571), mRNA	G01436774F1 NIH_MGC_70 Homo saplens cDNA clone IMAGE:3898699 5	COLHASO / 4FT INIH MICC_/O Homo sapiens CDNA clone IMAGE:3898699 5	Homo sepiens chromosome 21 segment HS21C010	Abesszir Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K6932 5 stmllar to REPETITIVE ELEMENT	Imfc16 Regional genomic DNA specific cDNA library Home conjunctions	fmfc16 Regional genomic DNA specific cDNA library Homo senions, cDNA situa, CD44	11.2-ST0162-131099-006-412 ST0162 Home seriens Anna Anna Anna Anna Anna Anna Anna An	IL2-ST0162-131099-006-d12 ST0162 Homo septems CDNA	yd93a01.r1 Soares fetal liver spleen 1NFLS Homo saplers cDNA done IMAGE:115752 5' similar to	Homo sapiens hypothetical protein (1 OC51233) mBNA	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3	ht09g01.x1 NCI_CGAP_Kid13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element;	
gle Exon Pro	Top Hit Database Source	FN	EST HUMAN	EST HUMAN	F	본	LN	NT	EST HUMAN	100	FOT HUMAN	EST HUMAN	ESI TICINAN	IN IN	Ė	TOT LUB JOSE	EST HUMAN	NAME OF THE PARTY	Z	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HIMAN	TN	EST HUMAN	EST_HUMAN	
Sin	Top Hit Acession No.	3.0E-35 AF223391.1	2.0E-35 N88965.1	2.0E-35 T11909.1	2.0E-35 AB018413.1	6912459 NT	6912459 NT	AB020702.1	2.0E-35 BE247575.1	2 0E 36 BE24754		17.4	YE047 4	RO12450 NIT		BEOLIANO 4	78.1		10.2	_	1.0E-35 AA631949.1		1.0E-35 AW389473.1			7705994	1.0E-35 BE350127.1		
	Most Similar (Top) Hit BLAST E Value	3.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35	2.0E-35 AB0207	2.0E-35	30 00	2 OF-35 L40220	2.0E-35 IT#9239	2 0E-35 YE0447	2.0E-35	20F-35	2 OE 35 BEOLUG	2.0E-35 BE9049	2 OF 35 A1 4697.	2.05-33	2.0E-35 N88965.	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35 T87947 1	1.0E-35	1.0E-35	1.0E-35	
	Expression Signal	1.81	1.74	1.25	5.2	26:0	76.0	0.88	1.09	90	2 55	1 66	3.72	1.36	136	7.27	151	3 07	3.97	4.17	4.38	4.38	44.43	44.43	1.16	2.31	1.11	1.11	
	ORF SEQ ID NO:		19902				22992		23539	23540		25401	28312	22991	22992	25354	26355			19802	19828	19829	20500	20501		22262	22496	22497	
	Exen SEQ ID NO:	17325	12659		i			13427	13747	13747	1	L	ı	13193	13193	18936	18936	19284		12659	10028	10028	10667	10667	10817	12369	12602	12602	
L	Probe SEQ ID NO:	7465	103	1171	2171	3272	3272	3511	3835	3835	4570	5426	8175	9028	9028	9205	9206	9725		9832	8	\$	735	735	894	2495	2740	2740	
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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens transcription elemention factor B (CIII) not more idea (1902) 1900	AV650422 GI C Home sanlens cDNA closs of CCEERS 2	AV650422 GLC Home sabiens con a clone GLCCEFOR a	Mus musculus activin recentor interacting problem (Aring mendium)	Mus musculus activin receptor interacting protein 1 (Ann 1-pending), mRNA	Homo sapiens chromatin assembly factor 1 submit B (ABN) (CHAESE), menny	AU156595 PLACE3 Hamo sepiens cDNA clone PLACE300038233	AU158595 PLACE3 Homo sablens oDNA clone PI ACERONARY 3	promma-7.D01.r bytumor Homo sapiens cDNA 5'	Homo sapiens hypothetical protein (I OC51233) mBNA	Homo sapiens casein kinase 1 epsilon (CSNK1F) mRNA	601584833F1 NIH MGC 7 Home canisms ATMA Alone MACE accessor Fi	CM1-CT0315-091299-063-407 CT0245 Home series ANIA	Homo sapiens C-terminal binding protein 2 (CTBDs) with NA	Human carcinoembronic antiden gene family member 12 (CCM42)	Human carcinoembronic antigen gene family member 12 (COM 12) gene, exons Land L/N	Homo saniens di nathina transferase A 4 mm 2 mm 4	Homo sabiens ninturin 2 (NIN.12) mRNA	Homo sapiens TOI 6 dene even 12	UI-H-BW1-anv-c-12-0-UI.st NCI CGAP Sub7 Homo saniens CDNA clama IMA CE-2022 E.2. 21	the3b06.x1 Scares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:226195 3' similar to abi-M1949 PANCREATIC SECRETORY TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE DEFICIENCE A INTERNAL TRYPS:NI NILIIBITODE A INTERNAL	ho06h02.x1 NCI_CGAP_Co14 Homo sepiens cDNA clone IMAGE:3036627 3' similar to SW:IMA2_HUMAN P52292 IMPORTIN A! PHA.2 st IRI INIT :	Homo sapiens syncytin precursor, mRNA, complete cds	tt95c09x1 NCI_CGAP_CLL1 Homo sepiens cDNA clone IMAGE.2107024 3' similar to contains MER9.b2	ANTANGARET NIH MCC 30 Home conjunction of the contract of the	Home satisfies Xr neer identification fraction: neuron 1479	60128555751 NIH MCC At Lime continue Child At Lime Continue Child At Lim	Homo sablens chromosome 21 serment HS24 Cooper	Homo sabiens API5-like 1 (API51 1) mRNA	Homo sapiens API5-like 1 (API5L1), mRNA	Homo saplens Xq pseudoautosomal region; segment 1/2
gie Exon Pro	Top Hit Database Source	Į.	EST HIMAN	EST HUMAN	Į.	NT	LN LN	EST HUMAN	EST HUMAN	EST HUMAN	L	TN	EST HUMAN	EST HUMAN	L	NT	LN	L	Z	L	EST HUMAN	EST HUMAN	EST HUMAN	L	EST HIMAN	EST HIMAN	L	FST HIMAN	NT IN		LN	NT
DIO OSU	Top Hit Acession No.	TN 0606030 NT	1.0E-35 AV650422.1	1.0E-35 AV650422.1	7656905 NT	TR56905 NT	11526236 NT	1.0E-35 AU158595.1	1.0E-35 AU158595.1	1.0E-35 AI525119.1	7705994 NT	11418110 NT	BE792832.1	4W857579.1	4557498 NT	J06672.1		-	7705622	6.0E-36 AB035346.1		<u>+</u>	6.0E-36 AW 780143.1	Γ	_			-	L163209.2	5.0E-36 5729729 NT	5729729 NT	5.0E-36 AJ271735.1
	Most Similar (Top) Hit BLAST E Value	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35	1.0E-35 BE79283	7.0E-36 AW8575	7.0E-36	7.0E-36 U06672.1	7.0E-36 U06672.1	7.0E-36	6.0E-36	6.0E-36	6.0E-36	6.0E-36 AI435169	6.0E-36	6.0E-36 AF208161	6.0E-36 Al380499	6.0E-36	5.0E-36/	5.0E-36 BE388436	5.0E-36/	5.0E-36	5.0E-36	5.0E-36
	Expression Signal	1.07	2.2	2.2	4.7	4.7	1.43	2	2	4.16	1.69	1.37	2.26	0.94	4.03	6.04	6.04	5.23	1.88	6.17	0.91	19.79	3.34	2.21	2.74	1.69	6.69	7.71	1.96	1.42	1.42	2.64
	ORF SEQ ID NO:	22826			24003	24004	25154		27579		22262			22622		26548	26549	25279	21741		23290	24965	26237	27096	28931	25071	19928	22478	23264	24358	24359	19928
	SEQ ID NO:	13030	13051	13051	14222		15301	19469	19469	18782	12369	18971	19198		13007		16371	19071	11854	12247	13501	15190	16087	16904	18646	19580	10107	12584	13475	14564	14564	10107
	Probe SEQ ID NO:	3104	3126	3126	4325	4325	5382	7501	7501	8977	9186	9267	9620	2800	3080	6512	6512	9423	1959	2367	3587	5268	6221	7027	8833	9821	133	2722	3561	4678	4678	9026

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Fig. Concept Extra Concept		_	Г			T-	$\overline{}$		_	$\overline{}$	т	Г-	_	т-	$\overline{}$	_	_	,-	_	, .			۳.	-			٠.,						وروبين	<u> </u>	
Exon NO: ORF SEQ ID ID NO: Expression Signed (Top) Hit Public Top Hit Acession Source Top Hit Acession Source Top Hit Database 11115 20861 1.43 4.0E-36 BEO10038.1 EST_HUMAN 11329 21166 1.58 4.0E-36 BE010038.1 EST_HUMAN 11329 21166 1.58 4.0E-36 BE02574.1 EST_HUMAN 12062 25704 1.58 4.0E-36 BE010038.1 EST_HUMAN 13231 23037 3.21 4.0E-36 BE02526.1 EST_HUMAN 13231 23037 3.21 4.0E-36 BE38259.1 EST_HUMAN 13231 23037 3.21 4.0E-36 BE38259.1 EST_HUMAN 13231 23037 3.21 4.0E-36 BE38259.1 EST_HUMAN 16856 27031 1.41 4.0E-36 BE38259.1 EST_HUMAN 16856 27041 1.41 4.0E-36 BE38259.1 EST_HUMAN 10516 2704 1.41 4.0E-36 BE7	bes Expressed in Heart	Top Hit Descriptor	Homo conjana colojna india ki ali	PMS-BN0178-100400 001 -01 BN0128 CKIRA0330), mRNA	FERTONICO ACCUSATO FOR TOTAL SEPTENDA S	ENDONOCLEASE]	2820020 Forting MILE MICC 19 Home Septens CUNA clone IMAGE:3628386 5	R012822861 NIH MRC 44 U.	601282266E1 NIH MGC 44 Home confirm Child Confirm Child Confirm Child Confirm Child	Home sales a distriction of the control of the cont	Himan platelot Changadain III (Opilia)	Home sarione DNA for amilitie (or its) gene, exons 2-29	Home explains out any and the cursor protein, complete cds	TIGORIO Seprens Date: 11 Till Till Till Till Till Till Till T	Home contain and the factor of	AV75560 TB Long control of activated 1-cells, cytoplasmic 2 (NFATC2), mRNA	Anno social and adverse curve done IPGABH01 5	nomo sapiens neurexin III-apha gene, partial cds Homo sapiens VIA Annes	Management Richards Protein (NIAAU952), mRNA	Mus Integrates Junctophilin 1 (Jp1-pending), mRNA	601106340E4 MILL MOC. So nome septens culvA clone IMAGE:3862086 5	OVO-OTORS A 240300-174 Fox OTANS 1	Miscalins A77-bbox game, commiscal and a commi	EST06648 Infant Brain Bank Search Homo contract DNIA	vc44a07.r1 Stratagene liver (#837224) Homo semions CDNA 1	601300938F1 NIH MGC 21 Homo sapiens child Alma MA CE-2005 1	RC1-HT0217-131199-021-h07 HT0217 Home conies INNAGE. 303348U 3	RC1-HT0217-131199-021-Inc7 HT0217 Home conference DNIA	502136493F1 NIH MGC 83 Homo sapiens cDNA chine IMAGE-17279895 FF	wb37c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307862 3' similar to contains Alu	epetitive element	2051a12.r1 Stratagene endothelial cell 937.223 Homo sablens cDNA clone IMAGE sonaca si	2051a12.r1 Stratagene endothelial cell 937223 Homo saniene CDNA close IMAGE: Eggan Fi	(e82b07.x1 NCI CGAP Brn35 Homo saniens cDNA ctome IAAACE:084.4657 or	2V3-NN1023-010600-199-h01 NN1023 Homo saplens cDNA
Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acession Value Most Similar Top Hit Acession Value 11010 25837 2.36 5.0E-36 11417 11115 20961 1.43 4.0E-36 BE010038.1 11530 21196 1.54 4.0E-36 BE010038.1 11530 21196 1.58 4.0E-36 BE010038.1 12062 21389 1.58 4.0E-36 BE010038.1 13231 23037 2.21 4.0E-36 BE010038.1 18231 23037 3.21 4.0E-36 BE010038.1 16856 27054 1.74 4.0E-36 BE010038.1 16856 27057 1.41 4.0E-36 BE38259.1 19045 27051 1.0E-36 BE38259.1	gle Exon Pro	Top Hit Database Source	FZ	11-	TOGGSIMS	EST HIMAN	EST HIMAN	EST HIMAN	EST HUMAN	TN	Į	Į.	Ę	EST HIMAN	-1.	EST HIMAN	NT IN	į		I١	EST HIMAN	EST HIMAN	-1	EST HUMAN	Т	Г	Т	Т	Г		7		HUMAN	HUMAN	П
Exon NO: ORF SEQ ID ID NO: Corporation Signal Signal ID NO: Mose Signal Signal ID NO: Mose Signal ID NO: <	[] 	Top Hit Acesslan No.	11417862	10	P10266	BE382574.1	AW2477721	3E389299.1	3E389299.1	11497041	V33320.1	387675.1	087675.1	AA400370 1	11420516	V753629.1	Γ	7662401	10184130	27.1	Γ				_	10.1	23.1		31.1	,	4				
Exon NO: Signess 11115 20861 11115 20861 11115 20861 11329 21196 11329 21196 11329 21389 12331 28481 15015 20857 16856 27051 18231 28481 19015 28584 14757 24534 10793 20643 11987 21885 11987 21885 11987 21842 118442 1184444444444		Most Similar (Top) Hit BLAST E Value	5.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36	4.0E-36/	4.0E-36	4.0E-36/	3.0F-36/	3.0E-36	3.0F-36	3.0E-36	2.0E-36	2.0E-36	2.0E-36	2.0E-36 T	2.0E-36 T	1.0E-36 B	1.0E-36	1.0E-36 B	1.0E-36B	100	A 05-30.	1.0E-36 A	1.0E-36/A	1.0E-36 A	1.0E-36 B
Exen OR SEQ ID ID ID ID ID ID ID ID ID ID ID ID ID		Expression Signal	2.36	1.43	1.54	1.58	1,63	3.21	3.21	221	1.74	1.41	1.41	2.19	1.31	285	2.73	0.89	5.15	1.78	2.7	4.62	2.16	3.99	11.82	1.9	0.86	0.86	1.31	, u	1000	203	2.03	2.84	4.06
0		ORF SEQ ID NO:				L		23036	23037	25704	26547	27050	27051	28481			20437	22033	24081	28584	22857	24534	25127	25556	25989	20643	21884	21885	21942		200744	20711	71/07	27287	27917
Probe SEQ ID NO: 1205 1205 1402 8310 8310 8310 8310 8310 8310 8310 8310															L		10614	. 12136	14297	18325	13057	14757	15291	15483	15867	10793	11987	11987	12043	15660	185.00	16520	מסממו	1/09/1	1/6/4
		Probe SEQ ID NO:	9318	1205	1424	1626	2175	3310	3310	5693	6511	6979	6979	8356	9334	9380	681	2252	4402	8452	3132	4877	5371	5567	2962	867	2088	2098	2155	5752	BEAD	0799	2002		1824

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Table 4

		П	\neg	\neg	T	\neg	٦	٦	7	7	7	Т	la	0	7	T		1 ~	uer a	r	*Au	(v		ΠÏ	Ťĺ		7	*****	-70-1-0-	4mp :
Single Exon Probes Expressed in Heart	Top Hit Descriptor	CM3-NN0081-140400-147-h12 NN0061 Home conjune -DNA	ULHE-BNO-ale-C-03-01 II 1 NIM M/C 50 Home control of the control o	Homo saplans Ran GTPasa activation arratain 4 (DANICADA) CONA	Homo sapiene chromosome 22 pper reading from 2 (2200 E2).	Hamo sabiens chromosome 24 soument US24 Co.2	Homo sapiens Sad1 into-84 domein protein 2 (STIN2) = DNA	WS80b07x1 NCI CGAP Cos Home serviens annual alone MA DE SERVIC	WS80b07x1 NCI CGAP Co3 Home canions cDNA claim INA CE cauda245 3	73D4 Human refina cDNA Tsn5ngI-cleared sublibrary Homes contractions	Homo saplens mRNA for KIAAAR77 profein partial ode.	CM0-UT0003-050800-503-d09 UT0003 Home saniens c/NiA	ht09g01.x1 NCI_CGAP_Kld13 Homo sapiens cDNA.clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element :	ht09g01.x1 NCI_CGAP_Kld13 Homo sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3	RCI-CN0008-210100-012-ang 1 CN0008 Home conjunt and	H.sepiens DMA, DMB, HLA-Z1, IPP2, LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 denes	DKFZ0434E0422 r1 434 (supopium: biter3) Home conference Child - In Section 1	wk25b11.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413341 3' similar to contains PTR5.t2 PTR5 repetitive element :	tm87g03.x1 NCI_CGAP_Bm25 Homo saplens cDNA clone IMAGE:2165140 3' similar to contains L1.b3 L1	rependive element;	EST178035 Other carriers (UCC)	EST178035 Colon carcinome (IPCV) cell line Homo sapiens cDNA 5 end	Homo sablens alucine Cecah (franciscus / 2 - 1 - 2 1 1 2 1 1 1 1 1 1	Homo sapiens NOD1 profeip (NOD4) rane exercised 4.2 miles - Report 19 and 19 an	290004.51 Spares fetal liver subon 1NEI S. S. U.	EST62a10 WATM1 Home series and Alass 5246 : "	DKF20434, 2418, r1 434 (sunonum: bless) Home conjunct CNN - CNT - CNT - CNT	NKZD4341 2418 11 424 (symonym: Hass) Home capitals CDNA 1 Profiles	EST373222 MAGE resequences, MAGF Homo senions chiva	EST373222 MAGE resequences, MAGF Homo saplens cDNA
gle Exon Prot	Top Hit Database Source	EST HUMAN	EST HUMAN	L	NT	L	IN	EST HUMAN	EST HUMAN	EST HUMAN	PN	EST HUMAN	EST HUMAN	EST HIMAN	Т		L HUMAN			LS - TOWAIN	┱	Т			T HUMAN	т	EST HUMAN	_	Т	EST HUMAN
Sin	Top Hit Acession No.	1.0E-36 AW897636.1	4W 504143.1	11418177 NT	11418121 NT	AL163213.2	1.0E-36 AF202723.1	9.0E-37 AW009277.1	9.0E-37 AW009277.1	9.0E-37 W22618.1	8.0E-37 AB020684.1	8.0E-37 BE698077.1	8.0E-37 BE350127.1	8.0E-37 BE350127.1			1.0		7 0E-37 AI536702 4			5.0E-37 AA307123.1	7117		=		-			3.0E-37 AW961150.1
	Most Similar (Top) Hit BLAST E Value	1.0E-36	1.0E-36 AW 5041	1.0E-36	1.0E-36	1.0E-36 AL16321	1.0E-36	9.0E-37	9.0E-37	9.0E-37	8.0E-37	8.0E-37	8.0E-37	8.0E-37	8.0E-37	8.0E-37 X87344.1	7.0E-37	7.0E-37 AI817700	7 05-37	6.0E-37.A	5.0E-37	5.0E-37 A	5.0E-37	5.0E-37 AF14977;	4.0E-37 AA702794	4.0E-37 N62051.1	3.0E-37 A	3.0E-37 A	3.0E-37 A	3.0E-37 A
	Expression Signal	3.43	3.91	3.74	1.29	3.07	2.89	1.96	1.96	2.79	1.38	1.7	4.1	4.1	5.63	6.25	2.51	6.77	4.16	2.48	3.37	3.37	4.17	3.57	2.23	1.11	2.85	2.85	1.7	3.02
	ORF SEQ ID NO:	28444	28857		25305			26390	26391		24781		25547	25548	25576	26670		28274	28388		25716	25717	13		22145		21755	21756		
	Exon SEQ ID NO:	18194	18574	L		19214	19371		16231	19093	15010	15136	15475	15475	15499	16482	11170	18028	18148	19292	15615	15615	18171	18931	12254	15027	11863	11863	12341	12863
	Probe SEQ ID NO:	8317	8686	9203	9374	9647	9890	8368	6368	9462	5143	5213	5559	5559	5584	6802	1263	61.40	8268	9775	5707	5707	8292	9198	2374	5160	1970	1970	2465	2836

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Single Exon Probes Expressed in Heart

	Top Hit Descriptor	one NTORPannovies 5'	One NTORPS/COARS &	210047	Homo sapiens cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis) polymentide 1 (CVD27.4.1) mDNA	A St. and	CDNA clone IMACE:4111408 Et	Homo saptens J domain containing protein 1 isoform b (IDP1) mBNA complete of	Homo sapiens pescadillo (zebraiish) homolog 1. containing RRCT domain (DESA). monta	210081	complete cds	CONA chore MAGGE 3883683 8	io sapiens cDNA	zp21b02.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610059 5 similar to	to manufacture and the second	sed pseddogale, complete cas	Raffus noveoicus muliidamain massanantir cadamatrix arafain Biracia (1 Actes 200)	MARIE PROBEIL FICCOLD (LOCOLDS), MRNA	602018401F1 NCI CGAP Bright Homo semiens cDNA clone IMAGE: 41E2002 E	A0571), mRNA	no sapiens cDNA	cDNA clone IMAGE:3859348 5'	NF287), mRNA	NF287), mRNA	frame 3 (C12ORF3), mRNA	ete cds	no saplens cDNA		cDNA clone IMAGE:3854074 5'	Prase mRNA complete CDS	arase mRNA complete CDS	frame 3 (C12ORF3), mRNA	
Single Exon Probes Expressed in Heart		AU131202 NT2RP3 Homo sapiens cONA clone NT2RP3002168 F	AU131202 NT2RP3 Home satiens cDNA clone NT2RP3002168 5	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens cytochrome P450, subfamily XXVIIA xanfromatosis) notweentde 1 (CVD27A1A) mBNA	EST52931 Fetal heart II Homo saniens cDNA 5' end	601869157F1 NIH MGC 17 Homo saniens cDNA cione IMAGE: 4111408 F	Homo sapiens J domain containing p	Homo sapiens pescadillo (zebrafish)	Homo sapiens chromosome 21 segment HS21C081	Homo sapiens ribonuclease III (RN3) mRNA. complete cds	601448619F1 NIH MGC 65 Homo saplens CONA Charle MAGE 3853657 F	QV0-FN0180-280700-318-c10 FN0180 Homo sapiens cDNA	zp21b02.r1 Stratagene neuroepitheliu	Hunan somalic cytchrome c (HC4) processed postudence	CM3-F10096-140700-243-d07 F10096 Home series CDNA	Rattus novegicus multidomain presw	Homo sapiens Grb2-associated binder 2 (KIAA0574) mRNA	602018401F1 NCI CGAP Brn87 Ho	Homo sapiens Grb2-associated binder 2 (KIAA0571), mRNA	EST384920 MAGE resequences, MAGL Homo sapiens cDNA	601455722F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859348 5	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	Homo sapiens DNA for Human P2XM, complete cds	EST383908 MAGE resequences, MAGL Homo saplens cDNA	Homo sapiens RIBIIR gene (partial), exon 8	601450148F1 NIH MGC 65 Homo sapiens cDNA clone IMAGE:3854074 51	B.taurus mitochondrial aspartate aminotransferase mRNA complete CDS	B.taurus mitochondrial aspartate aminotransferase mRNA complete CDS	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA	
Je Exon Pro	Top Hit Database Source	EST HUMAN	EST HUMAN	LN		EST HUMAN	EST HUMAN	IN	N L	FN	TN	EST HUMAN	EST_HUMAN	EST HIMAN	NT.	EST HUMAN	.1	Z-	EST HUMAN	NT	EST_HUMAN	EST_HUMAN	L	LT.	NT.		T_HUMAN		EST_HUMAN		N.		ŀ
SIDS	Top Hit Acession No.	AU131202.1	2.1	2	4503210 NT	2.0E-37 AA346720.1	-23	3.1	417972	1.0E-37 AL163281.2				1.0E-37 AA171406 1		[1	18482	11436955 NT	+	3955		_	11425114 NT	11425114 NT	5947		9.1	Τ.	0.1			11435947 NT	Į,
	Most Similar (Top) Hit BLAST E Value	2.0E-37	2.0E-37	2.0E-37	2.0E-37	20E-37	2.0E-37 BF20403	2.0E-37	2.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37	1.0E-37 E	9.0E-38	8.0E-38	8.0E-38 BF346221	8.0E-38	7.0E-38 /	6.0E-38	6.0E-38	6.0E-38	6.0E-38	6.0E-38/	5.0E-38 AW97181	5.0E-38 AJ237740	5.0E-38	4.0E-38 Z25466.1	4.0E-38 Z25466.1	3.0E-38	S OF SO A FONSES
	Expression Signal	1.94	1.94	1.47	5.05	3.36	3.23	16.4	3.15	3.61	22.51	96.0	2.13	2.85	20.59	2.46	3.05	1.95	1.44	1.36	1.38	1.76	1.69	1.69	4.46	99.9	1.15	1.79	2.42	2.56	2.56	0.82	130
	ORF SEQ ID NO:	20824	20825	21695	23519	26039	26759	28945		21828	23577	23753	24517	27141	28222		25514	20959	22225	20959	21920	22726	70407	22408		25286	20468	22178	26225	19909	19910	20897	_
	Exan SEQ ID NO:	10980	10980	11816	13730			18657	19403	_	- 1	13974	14737	16949	17973	19122	15447	11113	12326	11113	12023	12933	1332	7020	18842	19143	10642	12281	16076	10092	10092	11055	11043
	Probe SEQ ID NO:	1064	1064	1921	3818	6007	9899	8845	9933	2041	3878	4072	4857	7072	8082	9208	5530	1203	2449	9568	2135	3005	20402	72 6	2000	9242	2	2404	6191	133	113	144	2053

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Table 4
Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens HIRA interacting protein 4 (dnaJ-like) (HIRIP4), mRNA	SSU72 PROTEIN	SSU72 PROTEIN	601157633F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3504272 5	Homo sapiens chromosome 21 segment HS21C100	CM3-FT0181-140700-241-f07 FT0181 Homo sapiens cDNA	yw88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:249775.5'	yw88b04.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE 249775 5	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens chromosome 21 segment HS21C048	Homo sapiens SMT3 (suppressor of mif two 3, yeast) homolog 2 (SMT3H2), mRNA	2w30d01.r1 Soares ovary fumor NbHOT Homo saptens cDNA clone IMAGE:770785 5' similar to SW:MA12 RABIT P45701 MANNOSYL-OLIGOSACCHARIDE ALPHA-1 2.MANNOSIDASE:	Zw30d01.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:770785 5' similar to SW:WA12 RABIT P45701 MANNOSYI LOI IGOSACCHARINE AI DHA 1.9 MANNOSIDA CET	MR3-HT0487-150200-113-g01 HT0487 Homo sepiens cDNA	hu09g02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166130 3' similar to TR:002710 002710 GAG POLYPROTEIN.	Homo sapiens mRNA for KIAA0145 protein, partial cds	QV2-HT0698-080800-283-a05 HT0698 Homo sapiens cDNA	Homo saplens leucine-rich repeat-containing G protein-coupled receptor 6 (LGR6) mRNA martial cris	Homo sapiens leucine-tich repeat-containing G protein-counled recentur 8 // GRS/ mRNA medial and	AV726988 HTC Homo sapiens cDNA clone HTCAXH075	Homo saplens gene for kinesin-like protein, complete cals	CHR220580 Chromosome 22 exon Homo sepiens cDNA clone C22 788 5'	E1 beta=pyruvate dehydrogenase beta (promoter) [human, placenta, Genomic, 1280 nt]		3E:742539 5' similar to contains element	leotide binding protein-like 1 (GNI 1) mRNA	40173), mRNA	Homo sapiens cyclin K (CCNK) gene, exon 7
	Top Hit Database Source	IN	SWISSPROT	SWISSPROT	EST_HUMAN	NT	EST_HUMAN	EST HUMAN	EST HUMAN	N.	LN	N	EST HUMAN	EST HIMAN	EST_HUMAN	EST HUMAN	N.	EST_HUMAN	IN	Ę	EST HUMAN	IN	EST HUMAN	NT	N	EST HUMAN	1	TN	NT
	Top Hit Acession No.	7549807 NT		P53538	3.0E-38 BE279301.1	3.0E-38 AL163300.2	3.0E-38 BF373664.1	3.0E-38 H85494.1	3.0E-38 H85494.1		2.0E-38 AL163248.2	5902097 NT	2.0E-38 AA437353.1				2.0E-38 D63479.2		2.0E-38 AF190501.1	2.0E-38 AF190501.1	8.1	2.0E-38 AB012723.1			1418248	0.1	4885288	7661969 NT	1.0E-38 AF270831.1
	Most Similar (Top) Hit BLAST E Value	3.0E-38	3.0E-38 P53538	3.0E-38 P53538	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	3.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38	2.0E-38 H55641.1	2.0E-38 S74906.1	2.0E-38	1.0E-38 AA40157	1.0E-38	1.0E-38	1.0E-38
	Expression Signal	1.11	1.65	1.65	0.85	7:17	7.64	1.78	1.78	1.58	1.41	2.6	1.66	1.88	4.7	1.47	1.66	5.24	3.69	3.69	4.05	2	3.86	2.28	2.56	2.29	0.94	1	1.58
	ORF SEQ ID NO:		23480	23481		26083	26504	27094	27095		19836	21120	21390	21391			28063	28885	29008	29009			25313				21736		22221
-[Exch SEQ ID NO:	13552	13693	13693		19459	16337	16902	16902	17577	10032	11264	11531	11531	16819		17820	18596	18715	18715	18876	18878		19099	19396	10993	11849	11866	12322
	Probe SEQ ID NO:	3638	3781	3781	4513	6050	6478	7025	7025	7727	44	1358	1627	1627	. 6941	7316	7970	8781	8907	8907	9112	9115	9412	9472	9924	1077	1954	1973	2445

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Table 4
Single Exon Probes Expressed in Heart

Proceeding Procession Pro								
13966 23743 1.41 1.0E-38 AB037863.1 NT 14121 23806 0.83 1.0E-38 AL63203.2 NT 14127 23802 1.31 1.0E-38 AL163203.2 NT 14127 23802 1.31 1.0E-38 AL163203.2 NT 14387 24173 1.21 1.0E-38 A163203.2 NT 1582 25682 3.61 1.0E-38 7305303 NT NT 1582 25682 3.61 1.0E-38 A505461.1 NT 16582 25600 2.78 1.0E-38 B8014512.1 NT 16240 2640 2.78 1.0E-38 B8014512.1 NT 16240 278 1.0E-38 B8014512.1 NT 11272 2134 8.0E-39 A4163284.2 NT 1128 2134 8.0E-39 A4163229.1 RST HUMAN 11934 1.51 8.0E-39 A403230.4.1 EST HUMAN 10912 20757	g	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
14121 23866 0.83 1.0E-38 4505016 NT 14127 23902 1.31 1.0E-38 AL163203.2 NT 14127 23902 1.31 1.0E-38 AL163203.2 NT 14287 2473 1.21 1.0E-38 AL163203.2 NT 15582 25683 3.61 1.0E-38 7305360 NT 16582 25683 3.61 1.0E-38 7305360 NT 16240 26400 2.78 1.0E-38 AB014512.1 NT 16240 26400 2.78 1.0E-38 AB014512.1 NT 10361 13842 5.14 8.0E-39 4756231 NT 11278 2134 1.51 8.0E-39 A16324.2 NT 11870 28319 2.12 6.0E-39 BE30244.1 EST HUMAN 19337 2.13 6.0E-39 AF003528.1 NT 1934 2.2682 5.13 5.0E-39 AF003528.1 NT <td>छ</td> <td>13965</td> <td></td> <td></td> <td>1.0E-38</td> <td>Ļ</td> <td>NT</td> <td>Homo sapiens mRNA for KIAA1442 protein, partial cds</td>	छ	13965			1.0E-38	Ļ	NT	Homo sapiens mRNA for KIAA1442 protein, partial cds
14127 23902 1.31 1.0E-38 AL163203.2 NT 14127 23903 1.31 1.0E-38 AL163203.2 NT 14387 24173 1.21 1.0E-38 R922543 NT NT 15682 25682 3.61 1.0E-38 7305360 NT NT 15682 25682 3.61 1.0E-38 7305360 NT NT 16582 25682 3.61 1.0E-38 AL16324.2 NT 16582 2600 2.78 1.0E-38 AL16324.2 NT 10036 19841 2.33 1.0E-38 AL16324.2 NT 11278 21134 1.51 8.0E-39 AL62312 NT NT 11686 2.134 1.0E-38 AL163227.2 NT NT 11687 2.1352 5.54 7.0E-39 AL62329.1 NT 11686 2.785 6.0E-39 BE570394.1 EST HUMAN 1933 2.253 6.0E-39 AF603529.1 NT	23	14121			1.0E-38	4	NT	Homo saplens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
14127 239GS 1.31 1.0E-38 AL163203.2 NT 14387 24173 1.21 1.0E-38 R22543 NT 15682 25682 3.61 1.0E-38 7305360 NT 15682 25682 3.61 1.0E-38 7305360 NT 15682 25682 3.61 1.0E-38 7305360 NT 16240 278 1.0E-38 AB014512.1 NT 19481 2789 6.23 1.0E-38 AB163284.2 NT 10281 2.13 1.0E-38 AL163284.2 NT 11078 2.13 1.0E-38 AL163284.2 NT 11079 2.13 1.0E-39 AL163284.1 EST_HUMAN 11938 2.133 1.0E-39 AL163221.2 NT 16912 2.0757 1.3 6.0E-39 AR163291.1 EST_HUMAN 19337 2.23 6.0E-39 AR03528.1 NT 19440 2.2682 5.13 5.0E-39	622	14127	L		1.0E-38	2	NT	Homo sapiens chromosome 21 segment HS21C003
14387 24173 1.21 1.0E-38 8922543 NT 15682 25682 3.61 1.0E-38 7305360 NT 15682 25682 3.61 1.0E-38 7305360 NT 15240 26400 2.78 1.0E-38 BE350127.1 EST_HUMAN 17281 27489 6.23 1.0E-38 AE02312.1 NT 10036 19842 5.14 8.0E-39 AF62312.NT NT 11078 21834 1.51 8.0E-39 AF62312.NT NT 11938 21832 5.54 7.0E-39 AF6032312.NT NT 19070 28319 2.12 6.0E-39 BE670394.1 EST_HUMAN 19337 2.23 6.0E-39 BE670394.1 EST_HUMAN 19584 2.562 7.0E-39 AF603528.1 NT 19441 2.23 6.0E-39 AF603528.1 NT 1954 2.0E-39 AF603528.1 NT 10479 2.23 <td< td=""><td>622</td><td>14127</td><td></td><td></td><td>1.0E-38</td><td>2</td><td>NT</td><td>Homo sapiens chromosome 21 segment HS21C003</td></td<>	622	14127			1.0E-38	2	NT	Homo sapiens chromosome 21 segment HS21C003
15682 25682 3.61 1.0E-38 7305360 NT 15682 25683 3.61 1.0E-38 7305360 NT 15240 26400 2.78 1.0E-38 AB014512.1 NT 19481 27489 6.23 1.0E-38 BE350127.1 EST_HUMAN 19036 18842 5.14 8.0E-39 476223.2 NT 11078 2134 1.51 8.0E-39 476223.2 NT 11078 21832 5.54 7.0E-39 AL163227.2 NT 11086 2.12 6.0E-39 AR163227.2 NT 11038 2.12 6.0E-39 AF1602528.1 NT 11938 2.12 6.0E-39 AF160252.2 NT 11938 2.12 6.0E-39 AF1603528.1 NT 10912 2.0767 1.3 6.0E-39 AF1603528.1 NT 10479 2.0291 10.53 4.0E-39 AR160350.1 NT 10479 2.0275	8	14387			1.0E-38	8922543	NT	Homo saplens hypothetical protein FLJ10600 (FLJ10600), mRNA
1582 25883 3.61 1.0E-38 7305360 NT 16240 26400 2.78 1.0E-38 AB014512.1 NT 19481 27489 6.23 1.0E-38 BE350127.1 EST_HUMAN 19481 2.33 1.0E-38 AL163284.2 NT 10036 18842 5.14 8.0E-39 478223 NT 11078 2.134 1.51 8.0E-39 478229 NT 11938 2.1832 5.54 7.0E-39 AL163227.2 NT 18070 28319 2.12 6.0E-39 BF331829.1 EST_HUMAN 19337 2.23 6.0E-39 AF003528.1 NT 1944 2.2682 5.13 5.0E-39 AF003528.1 NT 1944 2.2682 5.13 5.0E-39 AF003528.1 NT 1944 2.2682 5.13 5.0E-39 AF003528.1 NT 1958 2.0757 1.54 5.0E-39 AF082949.1 EST_HUMAN	873	15582				7305360	NT	Mus musculus otogelin (Otog), mRNA
16240 26400 2.78 1.0E-38 AB014512.1 NT 17281 27489 6.23 1.0E-38 BE350127.1 EST HUMAN 19481 2.33 1.0E-38 AL163284.2 NT 10036 19842 5.14 8.0E-39 AL163284.2 NT 11078 21134 1.51 8.0E-39 AL163284.2 NT 11686 1.06 8.0E-39 AL163284.2 NT 11938 21832 5.54 7.0E-39 AL163227.2 NT 11938 21832 5.54 7.0E-39 BE331829.1 EST HUMAN 19337 2.12 6.0E-39 BE670394.1 EST HUMAN 19459 2.057 1.3 5.0E-39 AL16327.2 NT 19479 2.057 1.3 5.0E-39 AL603528.1 NT 19479 2.023 1.0.53 4.0E-39 AL603528.1 NT 19479 2.023 1.0.53 4.0E-39 AL603528.1 NT 1954 2.023 0.06 4.0E-39 AL603528.1 NT 1954 2.023 0.06 4.	373	15582				7305360	ΝΤ	Mus musculus otogelin (Otog), mRNA
17281 27489 6.23 1.0E-38 BE350127.1 EST HUMAN 19481 2.33 1.0E-38 AL163284.2 NT 10036 19842 5.14 8.0E-39 4502312 NT 11278 21134 1.51 8.0E-39 4502312 NT 11686 1.06 8.0E-39 4758229 NT 11938 21832 5.54 7.0E-39 AL163227.2 NT 18070 28319 2.12 6.0E-39 BE331829.1 EST HUMAN 19337 2.23 6.0E-39 BE670394.1 EST HUMAN 19479 20291 1.54 5.0E-39 AL16327.2 NT 19474 20291 1.54 5.0E-39 AL16327.2 NT 15441 20291 1.54 5.0E-39 AL16327.2 NT 16587 5.13 5.0E-39 AL16327.2 NT 16587 1.54 5.0E-39 AL163210.2 NT 16587 20291 1.0.53 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AL668.2 NT <tr< td=""><td>82</td><td>16240</td><td></td><td></td><td></td><td>1</td><td>TN</td><td>Homo sapiens mRNA for KIAA0612 protein, partial cds</td></tr<>	82	16240				1	TN	Homo sapiens mRNA for KIAA0612 protein, partial cds
19481 2.33 1.0E-38 AL163284.2 NT 10636 19842 5.14 8.0E-39 AL163284.2 NT 10636 19842 5.14 8.0E-39 AL163281.2 NT 11686 1.0E 39 AR23404.1 EST HUMAN 11938 2.1832 5.54 7.0E-39 AR23404.1 EST HUMAN 1937 2.283 6.0E-39 BF331829.1 EST HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT 10479 20291 10.53 4.0E-39 AR015610.1 NT 10479 20291 10.53 4.0E-39 AR015610.1 NT 10587 26775 1.49 4.0E-39 AR03528.1 EST HUMAN 10629 19830 1.127 3.0E-39 AR031949.1 EST HUMAN 10629 19830 1.127 3.0E-39 AR031949.1 EST HUMAN 10629 19830 1.127 3.0E-39 AR031949.1 EST HUMAN 10629 19831 11.27 3.0E-39 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629 AR031949.1 EST HUMAN 10629	74	17281					EST HIMAN	ht09g01.37 NCI_CGAP_Kld13 Home sapiens cDNA clone IMAGE:3146256 3' similar to contains MER29.b3 MER29 repetitive element :
1036 19842 5.14 8.0E-39 4758229 NT 1.278 2134 1.51 8.0E-39 4758229 NT 1.51 8.0E-39 4758229 NT 1.51 8.0E-39 4758229 NT 1.51 8.0E-39 4758229 NT 1.52 6.54 7.0E-39 BF331829.1 EST HUMAN 1.0912 20757 1.3 6.0E-39 BF331829.1 EST HUMAN 1.0912 20757 1.3 6.0E-39 AF003528.1 NT 1.241 23238 0.96 4.0E-39 AA163210.2 NT 1.54 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163210.2 NT 1.55 6.0E-39 AA163310.2 NT 1.55 6.0E-39	18	10481	l			,	TN	Homo sapiens chromosome 21 segment HS21C084
11278 21134 1.51 8.0E-39 4758229 NT 11686 1.06 8.0E-39 41823404.1 EST_HUMAN 11938 21832 5.54 7.0E-39 AL163227.2 NT 18070 28319 2.12 6.0E-39 BF331829.1 EST_HUMAN 1937 2.23 6.0E-39 BF670394.1 EST_HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT 19154 22682 5.13 5.0E-39 AF003528.1 NT 19154 220291 10.53 4.0E-39 AB015610.1 NT 16587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19240 2.03 19830 11.27 3.0E-39 AA681949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA681949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA681949.1 EST_HUMAN	18	10036				4502312	LN	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 16kD (ATP6C) mRNA
11686 1.06 8.0E-39 AI823404.1 EST_HUMAN 11938 2.1832 6.54 7.0E-39 AL163227.2 NT EST_HUMAN 18070 28319 2.12 6.0E-39 BF331829.1 EST_HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT EST_HUMAN 19154 22682 5.13 5.0E-39 AF003528.1 NT EST_HUMAN 10479 20291 10.53 4.0E-39 AB015610.1 NT EST_HUMAN 140479 20291 10.53 4.0E-39 AA082949.1 EST_HUMAN 10570 20371 10.53 4.0E-39 AA082949.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA0831949.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA0831949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.1 EST_HUMAN 10029 AA0831949.	3	11278					LN	Homo sapiens estroden receptor-binding fragment-associated gene 9 (EBAC9) mRNA
11686 1.06 8.0E-39 AI823404.1 EST HUMAN 18070 28319 2.12 6.0E-39 BF331829.1 NT 18070 28319 2.12 6.0E-39 BF331829.1 RST HUMAN 19337 2.23 6.0E-39 BF531829.1 EST HUMAN 10912 20767 1.3 6.0E-39 BF531829.1 RT HUMAN 19154 22682 5.13 5.0E-39 AF003528.1 NT 10479 220291 10.53 4.0E-39 AI750154.1 EST HUMAN 13441 23238 0.96 4.0E-39 AI651610.1 NT 16587 26775 1.49 4.0E-39 AA682949.1 EST HUMAN 19240 3.08 4.0E-39 AA682949.1 EST HUMAN 10029 19830 11.27 3.0E-39 AA6831949.1 EST HUMAN 10029 19831 11.27 3.0E-39 AA6831949.1 EST HUMAN 10029 19831 11.27 3.0E-39 AA6831949.1 EST HUMAN	!		L					wh53f10.x1 NCI CGAP Kid11 Homo saplens cDNA clone IMAGE:2384491 3' similar to TR:P87890 P87890
1938 21832 5.54 7.0E-39 AL163227.2 NT 18070 28319 2.12 6.0E-39 BF331829.1 EST_HUMAN 19337 2.23 6.0E-39 BF670394.1 EST_HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT 12884 22682 6.13 5.0E-39 AI750154.1 EST_HUMAN 19154 1.54 6.0E-39 AI750154.1 EST_HUMAN 10479 20291 10.53 4.0E-39 AL163289 NT 16587 26775 1.49 4.0E-39 AR632949.1 EST_HUMAN 19240 3.08 4.0E-39 AR682949.1 EST_HUMAN 1029 1983 11.48177 NT 10029 1983 11.27 3.0E-39 BA8831949.1 EST_HUMAN 10029 1983 11.27 3.0E-39 BA8831949.1 EST_HUMAN	88			1.06		AI823404.1	EST_HUMAN	POL PROTEIN;
1937 2.12 6.0E-39 BF331829.1 EST_HUMAN 1937 2.23 6.0E-39 BE670394.1 EST_HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT 12884 22682 6.13 5.0E-39 AF003528.1 NT 19154 20291 1.54 5.0E-39 AF00154.1 EST_HUMAN 19479 20291 10.53 4.0E-39 AF015610.1 NT 16587 26775 1.49 4.0E-39 AL163210.2 NT 19540 3.08 4.0E-39 AR82949.1 EST_HUMAN 19740 3.08 4.0E-39 AR82949.1 EST_HUMAN 19750 1.49 4.0E-39 AR82949.1 EST_HUMAN 19750 19830 11.27 3.0E-39 AR831949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AR831949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AR831949.1 EST_HUMAN	7	11938				2	TN.	Homo sapiens chromosome 21 segment HS21C027
19337 2.23 6.0E-39 BE670394.1 EST_HUMAN 10912 20767 1.3 6.0E-39 AF003528.1 NT 12884 22682 5.13 5.0E-39 AF003528.1 NT 19154 1.54 5.0E-39 AF003528.1 NT 19479 20291 1.54 5.0E-39 AF00154.1 EST_HUMAN 13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AL63210.2 NT 19540 3.08 4.0E-39 BE836452.1 EST_HUMAN 10220 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN	8	18070				1	EST_HUMAN	QV1-BT0631-040900-357-f02 BT0631 Homo sepiens cDNA
12884 22682 5.13 5.0E-39 AF003528.1 NT 12884 22682 5.13 5.0E-39 AI750154.1 EST_HUMAN 19154 1.54 5.0E-39 AI750154.1 EST_HUMAN 10479 20291 10.53 4.0E-39 AB015610.1 NT 13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AB83549.1 EST_HUMAN 10220 19830 11.27 3.0E-39 AR631949.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AR631949.1 EST_HUMAN	8	19337		2.23		BF670394 1	FST HUMAN	7e34c03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284356 3' similar to WP:R151.6 CE00828 :
12884 22682 5.13 5.0E-39 AF003528.1 NT 12884 22682 5.13 5.0E-39 AI750154.1 EST_HUMAN 19154 1.54 5.0E-39 AI750154.1 EST_HUMAN 19479 20291 10.53 4.0E-39 AB015610.1 NT 13441 23238 0.96 4.0E-39 AL163210.2 NT 15587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19240 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN								Homo saplens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat
12884 22682 5.13 5.0E-39 AI750154.1 EST_HUMAN 19154 1.54 5.0E-39 AI750154.1 EST_HUMAN 10479 20291 10.53 4.0E-39 AB015610.1 NT 13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19240 2.03 4.0E-39 BE836452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN	9	10912				1	NT	regions
12884 22682 5.13 5.0E-39 AI750154.1 EST_HUMAN 19154 1.54 5.0E-39 AI750154.1 EST_HUMAN 10479 20291 10.53 4.0E-39 AB015610.1 NT 13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19164 3.08 4.0E-39 BE836452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN								at36b04.x1 Barstead cdon HPLRB7 Homo sapiens cDNA clone IMAGE:2374063 3' similar to TR:Q15408
19154 1.54 5.0E-39 11420289 NT 10479 20291 10.53 4.0E-39 AB015610.1 NT 13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19164 3.08 4.0E-39 BE836452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN	327	12884				AI750154.	EST_HUMAN	Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;contains LTR7.t1 LTR7 repetitive element ;
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13441 23238 0.96 4.0E-39 AL163210.2 NT 16587 26775 1.49 4.0E-39 AAGB2949.1 EST_HUMAN 19164 3.08 4.0E-39 AAGB2949.1 EST_HUMAN 19240 2.03 4.0E-39 BE836452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AAG31949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AAG31949.1 EST_HUMAN	538					1	TN	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
16587 26775 1.49 4.0E-39 AA682949.1 EST_HUMAN 19164 3.08 4.0E-39 AA682949.1 EST_HUMAN 19240 2.03 4.0E-39 BE836452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN	525					AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
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19240 2.03 4.0E-39 BESSG452.1 EST_HUMAN 10029 19830 11.27 3.0E-39 AA631949.1 EST_HUMAN 10029 19831 11.27 3.0E-39 AA631949.1 EST_HUMAN		1		3.00			I LOL	ONE ENDOGE SECRET OF SECRET PROPERTY IN THE SECRET
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	₹					AA631949.1	EST_HUMAN	fmfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1

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Table 4
Single Exon Probes Expressed in Heart

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Ton Hit Descriptor	Los di Describico	finfc16 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR12-1	ox63a10.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1680986 3' similar to SW:GTR5_RAT P43427 GLUCOSE TRANSPORTER TYPE 5, SMALL INTESTINE;	ox63a10.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1660986 3' similar to SW:GTR5_RAT P43427 GLUCOSE TRANSPORTER TYPE 5. SMALL INTESTINE:	yp51c06.s1 Scares retina NZb4HR Homo sapiens cDNA clone IMAGE:190954.3'	601301607F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636289 51	promma-7.D01.r bytumor Homo saplens cDNA 5'	Homo sapiens homogentisate 1,2-dioxygenase gene, complete cds	PM0-BT0340-211299-003-d02 BT0340 Homo sapiens cDNA	nw21g02.s1 NCI_CGAP_GCB0 Homo saplens cDNA clone IMAGE:1241138 3' similar to contains THR.t3	HR repetitive element;	DOMESTICATE OF THE PROPERTY OF	INCATINOUS/FEBULOUS/ IT-ally FINOUS/ Home sapiens CUNA	200602.1 Strategene hVT neuron (#937233) Homo seniens cDNA clone 1846.05.546664 87	Human mRNA for KIAA0209 gene, partial cds	Homo sapiens myosin phosphatase, target subunit 2 (MYPT2), mRNA	Homo sapiens KVLQT1 gene	Homo sapiens KVLQT1 gene	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	EST364065 MAGE resequences, MAGB Homo sapiens cDNA	EST364065 MAGE resequences, MAGB Homo sapiens cDNA	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	yd26g06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109402 5' similar to contains	Alu repetitive element contains LTR1 repetitive element;	Mus musculus mRNA for neuronal Interacting factor X 1 (NIX1) (NIX1 gene)	wild musculus mixiva for neuronal interacting factor X 1 (NIX1) (Nix1 gene)	From Septents unby live protein 3 (1 OLF 3), mKNA	Indino sapiens mixiny tot ras-related 6 i P-binding protein, complete cds Himp sapiens I I/D di increa manubombardon 2/1/DD31 DMA	Homo sapiens AE-binding protein 1 (AFRP1) mRNA	Homo saplens AE-binding protein 1 (AEBP1) mRNA
Top Hit	Source	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	N L	EST_HUMAN		EST HUMAN	ECT ULIMANI	EST HIMAN	EST HUMAN	NT	NT	N	N	N	EST_HUMAN	EST_HUMAN	NT		EST_HUMAN	z I	Z	H		E	N.
ession	o Z	AA631949.1	A1084557.1	A1084557.1		BE409203.1	2.0E-39 AI525119.1	AF000573.1	AW372318.1		8.1					11425464 NT	5.1	AJ006345.1	7657020 NT		1.0E-39 AW951995.1	7657020 NT				4400700	20/0041	5803210	4755145 NT	4755145 NT
Most Similar (Top) Hit	BLAST E Value	3.0E-39 AA63194	3.0E-39 A108455	3.0E-39 A108455	3.0E-39 H37903.	2.0E-39 BE40920	2.0E-39	2.0E-39 AF00057	2.0E-39 AW3723	70.0	2.0E-39 AA/205/	200.30	2.0E-39	2.0E-39	2.0E-39 D86964.1	2.0E-39	1.0E-39 AJ00634	1.0E-39	1.0E-39	1.0E-39	1.0E-39	1.0E-39	1	1.0E-39 180876.1	1.0E-39 AJZ/81/	1.05-39 702/01/1	4 05 20 70499	9.0F-40	9.0E-40	9.0E-40
Expression	Signal	11.27	5.51	5.51	4.42	4.03	17.44	3.61	10.15	4	10.03	2 4	34	2.17	2.33	2.31	1.78	1.78	4.95	5.49	5.49	8.58	L	40.	4.30	200	1 2 2	167	10.19	10.19
ORF SEQ	Ö Q	19832	28781	28182						24.70.7	22349	22085	25142	26384	28874		21261	21262	21275	24239	24240	24279	- 007	22439	25460	TOTAL TOTAL	26382	20294	20971	20972
Exan SEQ ID	S Ö	10029	18871	18871	18900	10805			11418	11005	12458	14204			18587	19394	11401	11401	11419	14453	14453	14492	65030	133/9	15305	16028	16220	10484	1	11123
Probe SEQ ID	Ö	41	9104	9104	9147	879	894	1015	1513	200	2587	4303	6375	6360	8731	9922	1497	1497	1514	4561	4561	4604	0272	2408	5475	6083	6357	543	1215	1216

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ביים וויים ביים ביים ביים ביים ביים ביים	Top Hit Acession Database Top Hit Descriptor No. Source	1 EST_HUMAN	1 EST_HUMAN	1 EST_HUMAN	EST_HUMAN	.1 EST HUMAN	1 EST_HUMAN	.1 NT	EST_HUMAN	1 EST HUMAN	2 NT	1 EST_HUMAN	1 EST_HUMAN	:1 EST HUMAN	NT	11425464[NT Homo saplens myosin phosphatase, target subunit 2 (MYPT2), mRNA	1 NT	1 NT	657020 NT	5.1 EST_HUMAN	5.1 EST_HUMAN		EST_HUMAN	IN	1 NT	436736 NT	IN	5803210 NT Homo sapiens UDP-glucose pyrophosphorylase 2 (UGP2), mRNA	4755145 NT Homo sapiens AE-binding protein 1 (AEBP1) mRNA	4755145 NT Homo saptens AE-binding protein 1 (AEBP1) mRNA
AND SOCIETION BIBINO	Top Hit Database Source	1 EST_HUMAN	1 EST_HUMAN	1 EST_HUMAN	EST_HUMAN	.1 EST HUMAN	1 EST_HUMAN	.1 NT	EST_HUMAN	1 EST HUMAN	2 NT	1 EST_HUMAN	1 EST_HUMAN	:1 EST_HUMAN	NT	425464 NT	1 NT	1 NT	657020 NT	5.1 EST_HUMAN	5.1 EST_HUMAN		EST_HUMAN	INT	1 NT	436736 NT	IN			
	Most Similar (Top) Hit Top H BLAST E Value	3.0E-39 AA631949.	3.0E-39 A1084557	3.0E-39 A1084557.	3.0E-39 H37903.1	2.0E-39 BE409203	2.0E-39 AI525119.	2.0E-39 AF000573	2.0E-39 AW372318.1	2.0E-39 AA720574	2.0E-39 AL 163248.	2.0E-39 BF370207	2.0E-39 AA508880	2.0E-39 AA080867	2.0E-39 D86964.1	2.0E-39	1.0E-39 AJ006345.	1.0E-39 AJ006345	1.0E-39	1.0E-39 AW95199	1.0E-39 AW95199	1.0E-39	1.0E-39 T80876.1	1.0E-39 AJ278170.1	1.0E-39 AJ278170	1.0E-39	1.0E-39 D78132.1	9.0E-40	9.0E-40	9.0E-40
	Expression Signal	11.27	5.51	5.51	4.42	4.03	17.44	3.61	10.15		1.75	1.36	3.4	2.17	2.33	2.31	1.78	1.78	4.95	5.49		8.58	1.54	4.36	4.36	1.66	1.75	1.67	10.19	10.19
	ORF SÉQ ID NO:	19832	28781	28782							22349	23985	25142	26384	28874		21261			24239	24240		25439	25460			26382	20294	20971	20972
	Exan SEQ ID NO:	10029	18871	L	L	١.	10820	10933	l		12458	14201	15295		18587	19394	L	11401	11419	14453	14453	14492	15379	15395		L	16220	10484	11123	11123
	Probe SEQ ID NO:	4	9104	9104	9147	879	894	1015	1513	1930	2587	4303	5375	9360	8731	9922	1497	1497	1514	4561	4561	4604	6459	5475	5475	6083	6357	543	1215	1215

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Table 4
Single Exon Probes Expressed in Heart

Prop. Earn Cher SEC Processor Cher SEC				_	_		_	_			_			_	_			- :	***	خو بعد	ATLES 1609.0	•-	- 40	1881 18	14419 1			***** 'Piles'	
Excm ORF SEQ Expression Signal Signal (Top) Hit Top Hit Acess Value Top Hit Acess No. 11338 21205 5.04 8.0E-40 4507 14149 23823 1.12 9.0E-40 A4507 14149 23823 1.12 9.0E-40 A4507 14358 22725 0.95 8.0E-40 A6078165.1 1436 23823 1.12 9.0E-40 A6078165.1 1436 23823 1.12 9.0E-40 A6078165.1 1436 22450 2.41 8.0E-40 A6078165.1 16399 26578 1.56 7.0E-40 U60325.1 16399 26578 1.56 7.0E-40 U60326.1 16399 26578 1.56 7.0E-40 U60326.1 16599 26578 1.56 7.0E-40 U60326.1 16589 26126 3.0B 6.0E-40 A163275.1 15680 26126 3.0B 6.0E-40 A163275.1 1588 26126 <td>Des Expressed in Heart</td> <td>Top Hit Descriptor</td> <td>Homo sapiens tissue inhibitor of metalloproteinese 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA</td> <td>Homo sapiens mRNA for KIAA1244 protein partial cds</td> <td>Homo saplens ubiquitin specific protease 13 (Isopentidase T.3) (USD43) mRNA</td> <td>Homo sapiens ubiquitin specific protease 13 (sopentidase T-3) (1SP13) mRNA</td> <td>7H15A04 Chromosome 7 HeLa cDNA Library Homo sanians cDNA cione 7H45A04</td> <td>601288958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619166 5'</td> <td>Human DNA polymerase gamma mRNA, nuclear gene encoding mitochandrial protein complete ods</td> <td>Human DNA bolymerase damma mRNA nirilear range oncording misches.</td> <td>Homo sapiens chromosome 21 seament HS21Ch48</td> <td>EST70527 T-cell lymphoma Homo sapiens cDNA 6' end similar to similar to zinc finger prodein family.</td> <td>FST70F37 T. cell humbers Uses and a second of the second o</td> <td>hz40001 x1 NCI CGAP GC6 Home contains CDNA Jone 1946 Contains to zinc finger protein family</td> <td>Homo Sapiens fathy acid desaturase 1 (FADS4) mRNA</td> <td>Homo sapiens fatty acid desaturase 1 (FADS1) mRNA</td> <td>AV653028 GLC Homo sapiens cDNA clone GLCDGF04.3</td> <td>AV653028 GLC Homo sapiens cDNA clone GLCDGF043'</td> <td>Homo saplens chromosome 21 segment HS21C085</td> <td>tt91501.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:073505 073505 POL PROTEIN.;</td> <td>Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions</td> <td>Homo sapians KIAA0433 protein (KIA40433) DNA</td> <td>In/34e10.r1 NCI CGAP Br4 Homo sapiens cDNA clone IMACE 1222122</td> <td>PM0-BN0167-070500-002-h12 BN0167 Homo carlens conta</td> <td>PM0-BN0167-070500-002-h12 BN0167 Home capiens CDNA</td> <td>RC1-CN0017-120200-012-e04 CN0017 Homo saniens cDNA</td> <td>wh1207.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGF-2380549 3/</td> <td>Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA</td> <td>the state of the s</td>	Des Expressed in Heart	Top Hit Descriptor	Homo sapiens tissue inhibitor of metalloproteinese 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA	Homo sapiens mRNA for KIAA1244 protein partial cds	Homo saplens ubiquitin specific protease 13 (Isopentidase T.3) (USD43) mRNA	Homo sapiens ubiquitin specific protease 13 (sopentidase T-3) (1SP13) mRNA	7H15A04 Chromosome 7 HeLa cDNA Library Homo sanians cDNA cione 7H45A04	601288958F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3619166 5'	Human DNA polymerase gamma mRNA, nuclear gene encoding mitochandrial protein complete ods	Human DNA bolymerase damma mRNA nirilear range oncording misches.	Homo sapiens chromosome 21 seament HS21Ch48	EST70527 T-cell lymphoma Homo sapiens cDNA 6' end similar to similar to zinc finger prodein family.	FST70F37 T. cell humbers Uses and a second of the second o	hz40001 x1 NCI CGAP GC6 Home contains CDNA Jone 1946 Contains to zinc finger protein family	Homo Sapiens fathy acid desaturase 1 (FADS4) mRNA	Homo sapiens fatty acid desaturase 1 (FADS1) mRNA	AV653028 GLC Homo sapiens cDNA clone GLCDGF04.3	AV653028 GLC Homo sapiens cDNA clone GLCDGF043'	Homo saplens chromosome 21 segment HS21C085	tt91501.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248873 3' similar to TR:073505 073505 POL PROTEIN.;	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Homo sapians KIAA0433 protein (KIA40433) DNA	In/34e10.r1 NCI CGAP Br4 Homo sapiens cDNA clone IMACE 1222122	PM0-BN0167-070500-002-h12 BN0167 Homo carlens conta	PM0-BN0167-070500-002-h12 BN0167 Home capiens CDNA	RC1-CN0017-120200-012-e04 CN0017 Homo saniens cDNA	wh1207.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGF-2380549 3/	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA	the state of the s
Excm ORF SEQ Expression Signal Signal (Top) Hit Top Hit Acess Value Top Hit Acess No. 11338 21205 5.04 8.0E-40 4507 14149 23823 1.12 9.0E-40 A4507 14149 23823 1.12 9.0E-40 A4507 14358 22725 0.95 8.0E-40 A6078165.1 1436 23823 1.12 9.0E-40 A6078165.1 1436 23823 1.12 9.0E-40 A6078165.1 1436 22450 2.41 8.0E-40 A6078165.1 16399 26578 1.56 7.0E-40 U60325.1 16399 26578 1.56 7.0E-40 U60326.1 16399 26578 1.56 7.0E-40 U60326.1 16599 26578 1.56 7.0E-40 U60326.1 16589 26126 3.0B 6.0E-40 A163275.1 15680 26126 3.0B 6.0E-40 A163275.1 1588 26126 <td>gie Exuli Pio</td> <td>Top Hit Database Source</br></td> <td>L Z</td> <td>N</td> <td>N-</td> <td>N</td> <td>EST HUMAN</td> <td>EST_HUMAN</td> <td>Ę</td> <td>IN</td> <td>N.</td> <td>EST_HUMAN</td> <td>FRT HIMAAN</td> <td>EST HIMAN</td> <td>N</td> <td>NT</td> <td>EST HUMAN</td> <td>EST HUMAN</td> <td>N N</td> <td>EST_HUMAN</td> <td>IN</td> <td>LZ</td> <td>EST HUMAN</td> <td>EST HUMAN</td> <td>EST HUMAN</td> <td>EST HUMAN</td> <td>EST_HUMAN</td> <td>IN</td> <td></td>	gie Exuli Pio	Top Hit Database 	L Z	N	N-	N	EST HUMAN	EST_HUMAN	Ę	IN	N.	EST_HUMAN	FRT HIMAAN	EST HIMAN	N	NT	EST HUMAN	EST HUMAN	N N	EST_HUMAN	IN	LZ	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	IN	
Exen NO: ORF SEQ ID NO: Expression Signal (I) Mos Signal Mos Signal	IIO		4507512				AA078165.1	BE396541.1	U60325.1	U60325.1	AL163246.2	AA361275.1	AA361275 1	BE504766.1	11439783	11439783				Al686005.1		32117	AA742809.1	BE009416.1	6.1		Al925949.1	11417342	
Exon ORF SEQ Express NO: NO: NO: Signe NO: 11338 21205 15069 23586 14149 23923 12932 22725 13768 22449 22450 15589 26578 15589 26578 15589 26578 15589 26578 15589 26578 15589 26578 17681 27804 17581 27804 17681 27805 17681 27805 17681 27805 17681 27805 17681 27805 17681 27805 17681 27805 17681 27805 17681 27805 17684 27308 17114 27308 17989 28238 13943 23721 66542 26030 66580		Most Similar (Top) Hit BLAST E Value	9.0E-40	9.0E-40	9.0E-40	· 9.0E-40	8.0E-40	8.0E-40	7.0E-40	7.0E-40	7.0E-40	6.0E-40	6.0F-40	6.0E-40	6.0E-40	6.0E-40	6.0E-40	6.0E-40	5.0E-40	4.0E-40	4.0E-40	4.0E-40	4.0E-40	4.0E-40	4.0E-40	4.0E-40	3.0E-40	3.0E-40	
Exen ORI ORI ORI ORI ORI ORI ORI ORI ORI ORI		Expression Signal			0.82	1.12	96.0	2.41	1.56	1.56	2.83	3.88	3.88	2.07	3.08	3.08	6.82	6.82	1.89	1.38	2.67	7.85	3.76	4.87	4.87	4.07	86.0	6.25	
		ORF SEQ ID NO:											22450				27804	27805	22326	21607		23973	26738	27308	27309	28238	23721	26030	
Probe SEQ ID NO: 1433 3892 4250 4250 6541 6541 6541 6662 7731 7731 7737 7737 7737 7737 7737 773		Exen SEQ ID NO:		15069	14149	14149	12932	13758	16399	16399	18150	12560	12560	15531	15989	15989	17581	17581	12433	11731	11951	14189	16542	17114	17114	17989	13943	15906	
		Probe SEQ ID NO:	1433	3892	4250	4398	3004	3847	6541	6541	8270	2696	2896	5616	6141	6141	7731	7731	2261	1834	. 2061	4201	9999	7237	7237	8039	4040	6001	

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens HBV associated factor (XAPA) mRNA	Rattus norvegicus putative four reneat ion channel mRNA complete and	Rattus norvegicus putative four repeat ion channel mRNA, complete cds	ht09g01.x1 NCI_CGAP_Kdd13 Homo saplens cDNA clone IMAGE:3146266 3' similar to contains MER29.b3 MER29 repetitive element:	Homo sapiens serine threonine protein kinase (NDR), mRNA	xd96h02.x1 Soares_NFL_T_GBC_S1 Homo sepiens cDNA clone IMAGE:2605491 3' similar to TR:Q15804 (015804 SIMILAR TO FNV OF TYPE A AND TYPE B DETECTION OF SIMILAR TO FNV OF TYPE A AND TYPE B DETECTION OF SIMILAR TO FNV OF TYPE A SIMILAR TO FNV OF TYPE B DETECTION OF TAXABLE A SIMILAR TO FNV OF TYPE A SIMILAR TYPE A SIMILAR T	Igg52h08.x1 Soares testis NHT Homo seniens cDNA clone IMAGE: 1838847.3	x24e10-x1 NCI_CGAP_Ut4 Homo sepiens cDNA clone IMAGE:2761098 3' similer to SW:RS5_MOUSE P97461 40S RIBOSOMAI PROTEIN SA	AV731601 HTF Hamo sapiens cDNA clone HTFAZE05 5	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 7 (PSMA7) mRNA, and translated products	Homo saplens profeasome (prosome, macropain) subunit, eipha type, 7 (PSMA7) mRNA, and translated products	wt90a11.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2514716 3' similar to TR:Q91929 Q91929 ZINC FINGER PROTFIN	Homo saplens adentify cyclase-associated protein 2 (CAP2) mDNA	Homo sapiens partial TIN gene for titin	601121567F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE 3345784 F	Homo sapiens adenylyl cyclase-associated protein 2 (CAP2) mRNA	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens chromosome 21 segment HS21C080	nc09a09.s1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE 1007608	601460375F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863803 5'	bb79a10.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048570 5' similar to TR:Q9Z158 Q9Z158	SYNTAXIN 17.;	602068604F1 NIH_MGC_58 Homo saptens cDNA clone IMAGE:4067736 5'	602068604F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4067736 5'	Homo sapiens sorting nexin 3 (SNX3) mRNA	Homo sapiens zinc finger protein 200 (ZNF200) mRNA, and translated products	Homo sapiens CGI-65 protein (LOC51103), mRNA
gie Exon Proi	Top Hit Database Source	NT	ĮN	N	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	TN	LX	EST HUMAN	Į.	NT	EST_HUMAN	1	TN	NT	EST_HUMAN	EST_HUMAN		EST_HUMAN		EST HUMAN	اخ		
	Top Hit Acession No.	5454167 NT	3.0E-40 AF078779.1	3.0E-40 AF078779.1	BE350127.1	6005813 NT	3.0E-40 AW118799.1	2.0E-40 AI223036.1	_		6188	4506188 NT			2.0E-40 AJ277892.1	-	2.0E-40 5453592 NT	2	2		۲.			1	1.0E-40 BF541030.1	4507142 NT	4508012 NT	7705778 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-40	3.0E-40	3.0E-40	3.0E-40	3.0E-40	3.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40	2.0E-40 AI968562	2.0E-40	2.0E-40 /	2.0E-40	2.0E-40	2.0E-40 /	2.0E-40 /	1.0E-40 /	1.0E-40 BF036881	I C	1.05-40	1.0E-40	1.0E-40.	1.0E.40	1.01.40	1.0E-40
	Expression Signal	4.28	1.49	1.52	1.93	11.23	1.98	12.69	2.72	1.4	2.19	2.19	1.08	2.61	2.35	1.08	3.59	1.49	1.49	1.65	1.91	3	78.1	26.0	0.92	1.81	0.20	0.88
	ORF SEQ ID NO:	26959	27253	27389	28515	28725	28954				21664	21665	21807	21910	22112		22806	24478	24479		22343		22460	22400	1.0477	24404	24184	Ince+7
	Exon SEQ ID NO:	16761	17063	17188		18456	18667	10283	10707	11681	11787	11787	11917	12011	12214	12525	13014	14691	14691	10791	12451	12520	12570	10570	2007	13181	14380	12116
	Probe SEQ ID NO:	6882	7186	7312	8387	8588	8855	322	<i></i>	1783	1892	1892	2026	2123	2333	2658	3087	4807	4807	8	7280	2653	2707	2707	2250	3230 4505	4802	1004

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	nj42f04.s1 NCI_CGAP_AA1 Homo sapiens cDNA clone IMAGE:995167 3'	ni42f04.s1 NCI CGAP AA1 Homo sapiens cDNA clone IMAGE:995167.3	AU149345 NT2RM4 Homo saplens cDNA clone NT2RM4002122 3'	qh31h10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1846339 3'	MR2-CT0222-211099-002-e10 CT0222 Homo sapiens cDNA	Homo saplens chromosome 21 segment HS21C003	wp04h04.x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2463895 3'	Wp04h04x1 NCI_CGAP_Kid11 Homo saplens cDNA clone IMAGE:2463895 3'	Homo saplens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1) mRNA	Homo sapiens DSCR5b mRNA, complete cds	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA	601340485F1 NIH, MGC, 53 Homo sablens cDNA clone IMAGE:3682677 5	yc03e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:79626.3*	Homo saplens target of myb1 (chicken) homolog (TOM1), mRNA	PM4-BT0341-251199-002-F11 BT0341 Homo sapiens cDNA	QV0-HT0367-150200-114-g09 HT0367 Homo sapiens cDNA	AU119344 HEMBA1 Homo saplens cDNA clone HEMBA1005583 5	ow45e06.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to TR:000597 000597 CYTOCHROME C-LIKE POLYPEPTIDE.;contains LTR5.b1 LTR5 repetitive element	ow45e06.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1649794 3' similar to	Homo sapiens gene for activin recentor than IIR commists offs.	tm86c04.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165958 3' similar to contains OFR.b1	Homo saplens 959 kb contra between AMI 1 and CBR1 on chromosome 24.22. second 472	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21422, segment 1/2	H.sapiens DNase I hypersensitive site (HSS-3) enhancer element	AV758295 BM Homo saplens cDNA clone BMFBHC05 5'	601888096F1 NIH_MGC_17 Home sapiens cDNA clone IMAGE:4122119 5'	AV710480 Cu Homo sapiens cDNA clone CuAACC07 5'	AV708431 ADC Homo sapiens cDNA clone ADCARE02 5'
Jie Exon Proc	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N FA	EST_HUMAN	EST_HUMAN	- LN	N-	N	NT	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN		NT TOWN	EST HIMAN	NT	NT	N	EST_HUMAN	EST_HUMAN		EST_HUMAN
) IIIS	Top Hit Acession No.	1.0E-40 AA573201.1	1.0E-40 AA573201.1	1.0E-40 AU149345.1	1.0E-40 AI239572.1	1.0E-40 BF334112.1	8.0E-41 AL163203.2	7.0E-41 AI934364.1	7.0E-41 AI934364.1	11419208 NT	11417972 NT	6.0E-41 AB037163.1	7657042 NT	BE567816.1		4885636 NT	5.0E-41 BE067042.1	4.0E-41 BE156318.1	4.0E-41 AU119344.1	A1027117.1			}		=				0.1	1.1
	Most Similar (Top) Hit BLAST E Value	1.0E-40	1.0E-40	1.0E-40	1.0E-40	1.0E-40	8.0E-41	7.0E-41	7.0E-41	7.0E-41	7.0E-41	6.0E-41	6.0E-41	6.0E-41 BE56781	5.0E-41	5.0E-41	5.0E-41	4.0E-41	4.0E-41	4.0E-41 Al027117	- ANTONIA - NA TION	4.06.41	4 0F-41	4.0E-41 AJ22904	4.0E-41 AJ22904	4.0E-41 X92685.1	4.0E-41	4.0E-41	4.0E-41	4.0E-41 AV70843
	Expression Signal	2.03	2.03	5.72	53.3	3.93	1.73	2.36	2.36	3.27	4.82	1.72	2.19	0.94	1.31	0.98	2.55	1.91	1.28	9.42	67.0	2.12	1C	3.03	3.03	1.89	1.39	6.01	7.62	2.31
	ORF SEQ ID NO:	26230	26231	28412	28480					25663			21851		21532				20839	21149	24 74 74	21170	21380	22578	22579	23730		27657		
	Exon SEQ ID NO:	16081	16081	18168	18232	19622	16501	12678	12678	15567	19618	10244	11954	14260	11660	13922	15850	10332	10998	11293	11003	11309	11522	12787	12787	13954	15825	17441	18733	19510
	Probe SEQ ID NO:	6215	6215	8289	8355	9521	6621	811	811	5655	9931	279	2064	4364	1761	4018	5945	382	1082	1388	7. 88 88	1404	1618	2859	2859	4052	2920	7590	8925	6696

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Table 4
Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens PAD-H19 mRNA for peptidylarginine deiminase type II, complete cds	Homo saplens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	complete cas)	Homo sapiens mKNA for KIAA1327 protein, partial cds	H.sapiens mRNA for putative p64 CLCP protein	Homo sapiens mRNA for KIAA1387 protein, partial cds	Human ribosomal protein L23a mRNA, complete cds	EST35818 Embryo, 8 week I Homo sapiens cDNA 5' end	Human mRNA for KIAA0207 gene, complete cds	Ggorilla DNA for ZNF80 gene homolog	Human ribosomal protein L23a mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C067	Homo sapiens chromosome 21 segment HS210067	Homo sapiens homolog of Nedd5 (hNedd5) mRNA, complete cds	Human B-cell specific transcription factor (BSAP) mRNA, complete cds	Human B-cell specific transcription factor (BSAP) mRNA, complete cds	EST31723 Embryo, 12 week I Homo sapiens cDNA 5' end	ZINC FINGER PROTEIN 135	EST84555 Colon adenocarcinoma IV Homo sapiens cDNA 5' end	Mus musculus tubulin alpha 6 (Tuba6), mRNA	qf75c10.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755858 3'	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	RC0-HT0613-210300-032-901 HT0613 Homo sapiens cDNA	Homo saplens hypothetical CZH2 zinc finger protein FLJ22504 (FLJ22504), mRNA	Homo sapiens hypothetical CZH2 zinc finger protein FLJ22504 (FLJ22504), mRNA	Homo sapiens homeobox protein CDX4 (CDX4) gene, complete cds and flanking reneat regions	Homo saptens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	nh07c02.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:943586 similar to TR:G434304 G434304	יייי ייייי ייייי איייי nomo sapiens ciriomosome Z1 segment HSZ1C085	nomo sapiens prospiradoyinositol 4-kinase 230 (pi4K230) mRNA, complete cds	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds	
	Top Hit Database Source	NT NT	Ŀ	z !	Z	۲	NT	١	EST_HUMAN	N	F	LN LN	NT TN	N	N	N	NT L	EST HUMAN	SWISSPROT	EST_HUMAN	N	EST_HUMAN	1528291 NT	EST_HUMAN	NT	뉟	LZ LZ	LN	EST HIMAN	TIN	E LIV	Į.	LN
	Top Hit Acession No.	3.0E-41 AB030176.1	9 OF 44 A BOOSSOOD 4	ABUZ0888.1	3.0E-41 AB037/48.1	3.0E-41 X87689,1	3.0E-41 AB037808.1	2.0E-41 U43701.1	2.0E-41 AA331940.1	2.0E-41 D86962.1	2.0E-41 X89631.1	2.0E-41 U43701.1	2.0E-41 AL163267.2	2.0E-41 AL163267.2	AF038404.1	2.0E-41 M96944.1	2.0E-41 M96944.1	2.0E-41 AA328265.1	1	2.0E-41 AA372637.1	6678468 NT	Al217868.1	11528291	BE179191.1	11560151	11560151 NT	8.0E-42 AF003530.1	8.0E-42 AB026898.1	8 0E-42 AA493896 1	NI AESTOE A	7.0E-42 AL 103203.2	-	6.0E-42 AF012872.1
	Most Similar (Top) Hit BLAST E Value	3.0E-41	77 10 6	3.05-41	3.05-41	3.0E-41	3.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41	2.0E-41 P52742	2.0E-41	1.0E-41		1.0E-41		9.0E-42	9.0E-42	8.0E-42	8.0E-42	8.0F-42	7 07 70	A OF AS	0.05	0.0E-42[/
	Expression Signal	1.64	00 6	3.00	0.83	7.36	1.49	7.3	2.3	1.03	4.07	5.31	1.06	1.06	6.59	1.33	1.33	1.39	1.7	3.46	4.64	1.8	2.63	1.33	2.63	2.63	5.37	1.32	37.6	2	3 40 8	3 2	3.20
	ORF SEQ ID NO:	20704	22044				•	21305	21688			21305	24199	24200	26559	26772	26773	26786	27255	28882	24149	27494			27367	27368	20216	21849			21586	20017	1/0017
	Exon SEQ ID NO:	10857	4.4430	14133	14918	15296	16755	11445	11810	12059	12106	11445	14414	14414	16381	16582	16582	16596	17065	18594	14359	17287	18930	16836	17168	17168	10399	11952	19625	10840	11709	1	11709
	Probe SEQ ID NO:	932	4240	5047	1	5376	6849	1782	1915	2172	2221	2798	4521	4521	6522	6702	6702	6716	7188	4448	4465	7420	9197	6958	7292	7292	455	2062	9238	a d	1812	1 6	1014

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Single Exon Probes Expressed in Heart

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Single Exoli riodes Expressed in near	Top Hit Descriptor	xp29f08.x1 NCI_CGAP_HN10 Homo sapiens cDNA done IMAGE:2741799 3' similar to contains L1.t1 L1 repetitive element;	qu24h09x1 NCI_CGAP_Br12 Homo sapiens cDNA clone IMAGE:1985761 similar to contains Alu repetitive element,	Homo sapiens mRNA for KIAA 1067 protein, partial cds	Homo sapiens mRNA for KIAA1067 protein, partial cds	Homo sapiens Xq pseudoautosomal region; segment 1/2	hv31e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3175052 3'	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo saplens ublqultin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA	Homo saplens ubiquitin protein ligase E3A (fruman papilloma virus E6-associated protein, Angelman syndrome) (UBE3A), mRNA	Homo saplens myotubularin related protein 3 (MTMR3), mRNA	Homo sapiens multifunctional calcium/calmodulin-dependent protein kinase II delta2 isoform mRNA, complete cds	Homo sapiens mRNA for KIAA1294 protein, partial cds	Homo sapiens hypothetical protein FLJ20163 (FLJ20163), mRNA	Homo sapiens MHC class 1 region	Horno sapiens MHC class 1 region	Homo sapiens ribonuclease III (RN3) mRNA, complete cds	H.saplens PROS-27 mRNA	Homo sapiens regulatory factor X, 4 (influences HLA class II expression) (RFX4) mRNA	Homo sapiens zinc finger protein 177 (ZNF177) mRNA	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA	RC1-ST0278-040400-018-h11 ST0278 Homo sapiens cDNA	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3882086 51	ab14e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains	I HK 12 I HK repetitive element;	RCC-TN0079-110900-024-g07 TN0079 Homo sapiens cDNA	RC3-NN0070-270400-011-h10 NN0070 Homo sapiens cDNA	2819293.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819293 3'	EST367438 MAGE resequences, MAGC Homo sapiens cDNA
JIO EXUII FIO	Top Hit Database Source	EST_HUMAN	EST_HUMAN	N	N	TN	EST_HUMAN	IN.	NT	ΝΤ	Ā	LN LN	IN	Z.	占	Z	IN	Ϋ́	NT	TN	F	EST_HUMAN	EST_HUMAN	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN
ÌIIC	Top Hit Acession No.	6.0E-42 AW238656.1	AI284770.1	6.0E-42 AB028990.1	6.0E-42 AB028990.1	5.1		5730038 NT	5730038 NT	11433063 NT	11433063 NT		5.0E-42 AF071569.1	15.1	8923162 NT	4.0E-42 AF055066.1		4.0E-42 AF189011.1		4506496 NT	4508008 NT			4.0E-42 BF035327.1	1	5.1				58.1
	Most Similar (Top) Hit BLAST E Value	6.0E-42	6.0E-42 AI28477	6.0E-42	6.0E-42	5.0E-42	5.0E-42 BE21791	5.0E-42	5.0E-42	5.0E-42	5.0E-42	5.0E-42	5.0E-42	5.0E-42 AB0377	5.0E-42	4.0E-42	4.0E-42	4.0E-42	4.0E-42 X59417.1	4.0E-42	4.0E-42	4.0E-42	4.0E-42	4.0E-42	100	3.UE-42	2.0E-42 BF37683	2.0E-42	2.0E-42	2.0E-42 AW9553
	Expression Signal	3.51	1.04	1.81	1.72	5.44	1.17	2.94	1.27	1.76	1.76	2.75	1.57	2.76	2.15	8.89	8.89	2.67	1.61	4.52	10.26	2.07	2.07	3.22	g F	0.78	3.63	3.86	215	10.2
	ORF SEQ ID NO:			25105	25105		20197			26050	26051	26203	26294	27168	28494	20502	20503	20809	23779	23830	24162			28815			21239	ľ	22146	25500
	Exon SEQ ID NO:	12128	14814	15275		10105			10423	15920	15920	16055	16138	16975	18243	10668		10987		[14374	17932	17932	18531	10004		- 1			15437
	Probe SEQ ID NO:	2244	4936	5355	5504	134	<u>\$</u>	478	\$	6016	6016	6072	6274	7098	8366	736	736	1050	1 00	4156	4488	8041	8041	8714		2 3	1467	2361	2375	5519

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Table 4
Single Exon Probes Expressed in Heart

Most Smilar Top Hit Accession Top Hit Accession Top Hit Descriptor Top Hit Descriptor Top Hit Accession Top Hit		$\overline{}$	\neg																											
Most Similar Top Hit Acession Patabase	numo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA 2822251.5prime NIH MGC 7 Homo sapiens cDNA clane MACE-282221.5	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA	Homo sapiens hypothetical protein FLJ20297 (FLJ20297), mRNA	AV736824 CB Homo sapiens cDNA clone CBLAKH08 5'	AV736824 CB Hamo sapiens cDNA clone CBLAKH08 5'	279a07.s1 Soares testis NHT Homo sapiens cDNA clone MAGE-708a92	Homo sapiens chromodomain protein. Y chromosoma like (CDVI) mBNA	Homo sapiens a disinfectin and metallographics domain 23 (ADAM22) mr.NA	Homo sapiens a disintegrin and metallonomenase domein 23 / A D.A. (20) DN A	Homo sapiens mRNA for KIAA1288 protein partial cyle	Homo saplens ryanodine receptor 3 (RYR3) mRNA	Homo sapiens proteasome inhibitor (PI31) mRNA	Homo sapiens proteasome inhibitor (PI31), mRNA	RC3-ST0197-161099-012/a03 ST0197 Homo saniens cDNA	Homo sapiens chromosome 21 segment HS21Ch8n	Homo satisface chromosome 34 comment USAGOOS IIINIYA	Journ cominne KIAAOSE	Homo saplens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated	Homo sapiens major histocompatibility complex, class II. DM alpha (HI A-DMA) mRNA	Homo sapiens PDNP1 gene, exon 17	Homo sapiens rec (LOC51201), mRNA	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene encoding mitochondrial protein, complete cds	Homo sapiens NADH-ubiquinone oxidoreductase AGGG subunit precursor homolog mRNA, nuclear gene ercoding mitochondrial protein, complete cds	Homo saplens partial C9 gene for complement component C9, exon 1	Homo sapiens partial C9 gene for complement component C9 expn 1	UI-H-BI1-afh-e-04-0-UI s1 NCI CGAP Sub3 Home seniens cDNA close 1846 CE 2724 674 61	Human endodenous retroving bHE 1 (FRVo)	601061284F1 NIH MGC 10 Homo saniens CDNA clara NACE 2447629 F	EST367438 MAGE resequences, MAGC Homo saniens CONA	
Most Similar Top Hit Aces BLAST E No. Value 2	NT EST HUMAN		닐	EST HUMAN	EST_HUMAN	EST HUMAN	Į.	TN.	N _T	LN.	L	Į,	NT.	EST HUMAN	N-	NT.	Į.	NIT	NT	IN	N F	IN.	IN	NT	N	EST HUMAN	NT.	EST HUMAN	EST HUMAN	Top Hit Database Source
Mos	8923276 12.1	8923276	8923276	4.1	4.1		4757969	4501912	4501912	4.1	4506758	5803122	5803122	17.1	5.2	7.2	TEROUST	AEORECA	5174458		11423219	-	AF067166.1	AJ251818.1		AW295809.1			AW955368.1	Aces:
Signal 102 102 102 103 103 103 103 103 103 103 103 103 103	8.0E-43 7.0E-43 AW24644	8.0E-43	8.0E-43	8.0E-43/	8.0E-43	9.0E-43	9.0E-43	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1 OF-42	1 OF 42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	1.0E-42	2.0E-42	2.0E-42	Most Similar (Top) Hit BLAST E Value
<u>_ </u>	6.05	4.33	4.33	12.13	12.13	2.84	3.89	0.98	0.98	12	5.35	2.85	2.85	0.86	1.72	1.02	2.15	80	1.98	0.91	1.46	12.78	12.78	1.11	1.11	96:0	1.06	1.27	10.2	Expression Signal
8º	20443	20443	20441	20387	20386	28525	27893	24694	24693	24442	24348	24317	24316	24170	23827	23653	23347	22662	22264	21772	21443	20984		20843		20789			25501	ORF SEQ ID NO:
	10618 13503	10618	10618	10573	10573	18273	17655	14920	14920	14654	14555	14528	14528	14383	14053	13760	13561	12862	12372	11879	11575	12688	12688				10648	Ĺ		Exan SEQ ID NO:
Probe SEQ ID NO: NO: 1085 1085 1085 1085 1085 1085 1085 1085	685 3589	989	685	929	939	8397	7805	5048	. 5048	4769	4669	4640	4640	4489	4153	3849	3647	2935	2497	1986	1673	1222	1222	1085	1085	1026	717	7663	5519	Probe SEQ ID NO:

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Table 4
Single Exon Probes Expressed in Heart

	Exan ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
	16969	1.76		7.0E-43 Al936748.1	EST_HUMAN	wp69b01.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE::2466985 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN :contains LTR7 b1 LTR7 repatitive element
CA	11227	10.17		6.0E-43 AA491890.1	EST HUMAN	ne72d06.s1 NCI_CGAP_Ew1 Home sapiens cDNA clone IMAGE:909803 similar to gb:L05095 60S RIBOSOMAL PROTEIN L30 (HUMAN):
X.I	12421	4.15		6.0E-43 AV708201.1	EST_HUMAN	AV708201 ADC Homo sapiens cDNA clone ADCACC10 5'
12	15716 25829	3 2.02	6.0E-43	9955973 NT	TN	Homo sapiens ATP-binding cassette, sub-family C (CFTR/MRP), member 3 (ABCC3), transcript variant MRP3B, mRNA
201	15975 26111	2.02		6.0E-43 AW468897.1	EST HUMAN	hd30b04'x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2910991 3' similar to contains MER1.t3 MER1 MER1 repetitive element:
120	17518 27745	1.83		6.0E-43 AA195154.1	EST HUMAN	235e06.rf Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:665410 5' similar to TR:G529641 G529641 DB1. COMPLETE CDS. 'contains element PTR7 condition closure.
ន្តា	18322	6.54			EST HUMAN	DKFZp761L1712_rt_761 (swoonwr: hamv?) Home seriens (DNA does DRES)
2	10111	1.98			NT	Homo sapiens chromosome 21 segment HS21Ch13
7		3.01	5.0E-43		EST HUMAN	EST96033 Testis I Homo sapiens cDNA 5' end
N		1.36		5.0E-43 AV732578.1	EST HUMAN	AV732578 HTF Homo sapiens cDNA clone HTFANIONS 51
ଅା	17308 27514	4.47	5.0E-43	5.0E-43 AA465288.1	EST_HUMAN	aa33d08.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 51
6	17795 28035	2.2		5.0E-43 AI733244.1	EST HUMAN	0052c10.x5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1559810 3' similar to TR:P90591 P90591
ρĮ		1.41	5.0E-43	5.0E-43 AL049110.1	EST HUMAN	DKFZp434D0119 r1 434 (synonym: https://dynosapiens.chnia.chna.pkrzys434D0449
잆		5.46			EST HUMAN	MR2-SN0007-290400-004-002 SN0007 Homo saniens cDNA
있		2.67	5.0E-43	_	EST HUMAN	55a4 Human retina cDNA randomly primed sublibrary Home saniens cDNA
ହା	17902 28146	2.6	5.0E-43	5.0E-43 X15804.1		Human mRNA for alpha-actinin
ģ	12643 20728	4.85	4.0E-43	4.0E-43 AF003528.1	IN	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
16097	26	1.72	4.0E-43	16793	μ	Homo saplens protocadherin beta 6 (PCDHB6) mRNA
g	16636 26824	4.49	4.0E-43	4.0E-43 A1244341.1	EST HUMAN	q/76e02.x/ NCI_CGAP_Kld3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3 MER10 repetitive element:
9	16636 26825	4.49	4.0E-43	4.0E-43 AI244341.1	EST HUMAN	q76a02.x1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1865354 3' similar to contains MER10.t3 MER10 repetitive element :
ĬΪ	18489 28761	1.8	4.0E-43		EST_HUMAN	yd72h10.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMACE:112927 F1
Ò l	18915	1.89	4.0E-43	4.0E-43 R20950.1	EST_HUMAN	yg06b05.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31363 5' similar to contains MER10 is repetitive element;
¥	11105	2.84	3.0E-43	3.0E-43 AF223391.1	TN	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively soliced
ı						.0

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		T	≰	7	T	T	T	_m	Т	\top	6	\neg	T	T	1	T	T	Ť	Ţ	"	T	"	Ή	"	1	T	Ţ	Ţ	۳	"	T
Single Exon Probes Expressed in Heart	Top Hit Descriptor	H.sapiens gene encoding La autoantigen	AML1-EVI-1=AML1-EVI-1 fusion protein {rearranged translocation} [human, leukemic cell line SKH1, mRNA Mutant. 5938 ntl	Ink55d06.sr NCI CGAP Prz Homo saniens cDNA clane MACE: 1047440	Mus musculus dogelin (Otoa), mRNA	Mus musculus otogelin (Otog), mRNA	Human ribosomal RNA upstream binding transcription factor (UBTE) gene nartial sec	aa88f11.s1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838413.3' similar to contains THR.t2 THR repetitive element	Homo sapiens hypothetical protein (HSA011916) mRNA	Homo saplens SET domain and mariner transposase fusion gene (SETMAR) mRNA	qd61c09.x1 Scares_testis_NHT Homo saplens cDNA clone IMAGE:1733968 3' similar to contains PTR7.t3	UH-Bit-ang-only at NCI Crap Suka Home conjugation of the constant of the const	Human ribosomal protein L23a mRNA complete ds	FB1G5 Fetal brain, Stratagene Homo sapiens cINNA clone FR1G5 3'end similar to INIE 4	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene expres 1h and 2	Homo sapiens Ras-like GTP-binding protein (RAB27A) gene exms 15 and 2	Homo sapiens chromosome 21 segment HS21C084	602022313F1 NCI CGAP Brn67 Homo septiens CDNA close 1888 CE-34 E7666 E1	Homo sapiens Sp4 transcription factor (SP4) mRNA	Homo sapiens Sp4 transcription factor (SP4) mRNA	19940e01.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:34732 5' similar to SP-3D38 MOUSE P28656 BRAIN PROTEIN DINAR.	Homo sapiens 8022.1 region and MTG8 (CREADTA) come months out.	EST375749 MAGE resequences MAGH Home seriens of NA	Wr87h01.x1 NC CGAP Kid11 Home sanians cDNA class INA CE: 2.0.4.725 21	Homo sapiens calcium channel, voltage-dependent, alpha 1E submint (CACNIA4E).	DKFZp761D1015 r1 761 (synonym: hamy?) Home capiens cDNA Apric DKEZ-Zestbase ei	wb99b04x1 NCI CGAP Pr28 Home serviens cDNA clara NACE:2322725 pt	Homo sapiens cadherin EGF LAG seven-bass G-hme recentor 1 (CEI SB1) and	gh23g01.x1 Soares NFL T GBC S1 Home seniens clone into Grane into Granes of	4h23g01x1 Soares NFL T GBC S1 Homo saniens china flore IMA CE: 1845525 3	H.sapiens DNA for Cone cGMP-PDE gene
JIO EXON PIO	Top Hit Database Source	N TN	L L	EST HUMAN	4	N-	N	EST HUMAN	LN L	L L	EST HIMAN	EST HUMAN	NT	EST HUMAN	N-	L	N	EST HUMAN	١	ト	EST HUMAN	NT	EST HUMAN		٩.	EST HUMAN	EST HUMAN		EST HUMAN	ST HUMAN	NT
	Top Hit Acession No.	3.0E-43 X97869.1		14.1	5360	7305360 NT	3.0E-43 U65487.1	4.1	7661721	5730038 NT	2.0E-43 AI190764.1	20.1			3.1	5.1	1.2		4507168 NT	4507168 NT		2	6.1	-	11424378 NT	-	-	418322	-	-	
	Most Similar (Top) Hit BLAST E Value	3.0E-43	3.0E-43 S69002.	3.0E-43	3.0E-43	3.0E-43	3.0E-43	3.0E-43 AA45882	3.0E-43	3.0E-43	2.0E-43	2.0E-43	2.0E-43	2.0E-43 T03007.1	1.0E-43 AF15483	1.0E-43 AF154830	1.0E-43 AL 16328	1.0E-43	1.0E-43	1.0E-43	1.0E-43 R19751.1	1.0E-43 AF198490	1.0E-43 AW96367	1.0E-43 AI984961	1.0E-43	1.0E-43 AL137964	1.0E-43 AI675416.	9.0E-44	8.0E-44 AI222985.	8.0E-44 AI222985	8.0E-44 X94354.1
	Expression Signial	1.48	1.05	0.95	1.71	1.71	3.78	6.68	1.18	2.02	427	1.36	7.53	3.38	2.92	2.92	3.36	4.95	12.07	12.07	1.63	1.63	25.23	6.75	3.2	3.66	1.89	2.52	5.98	5.98	3.87
	ORF SEQ ID NO:	21437	23237	23872		_	26072		27188	29061		26332		•	21394	21395	21450	22444	26014	26015	24860		27199	28458	28844		25311	25255	20648	20649	27037
	Exon SEQ ID NO:	11571		14093			15940			18769	10148	16175	16715	18404	11534	11534	11580	12557	15892	15892	15117	16580	17006	18208	18560	18880	19058	19196	10798	10798	16845
	Probe SEQ ID NO:	1669	3524	4193	5837	5837	6037	6746	7120	8962	177	6312	6836	8532	1830	1630	1678	2692	2987	2882	6159	6700	7129	8331	8672	9117	9405	9618	872	872	8969

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		T	T	T	T	T	Τ	Τ	T	Τ	T	T	T	Τ	T	T	T	T	T		Î	Ī	T	Τ	Ť	T	T	T	T	Τ	T	I W	T	<u> </u>
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo saplens mRNA for trymidine kinase, partial	Homo sapiens myosin mRNA, partial cds	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide F (POLR2F), mRNA	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA	Homo saplens protein kinase C, alpha binding protein (PRKCABP), mRNA	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA	ye89e01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:124920 5	Homo sapiens LIM domain-containing preferred translocation partner in licoma (LPP) mRNA	Homo sapiens minisatellite ms32 repeat region	Homo sapiens minisatellite ms32 repeat region	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	AU159839 Y79AA1 Homo sapiens cDNA clone Y79AA1000496 3'	EST366120 MAGE resequences, MAGC Homo saplens cDNA	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene	th 40d02.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2170083 3' similar to contains OFR.t1	OFR OFR repetitive element;	AU124571 NT2RM4 Homo sapiens cDNA clone NT2RM4000218 5'	Homo saplens chromosome 21 segment HS21C103	Homo sapiens carboxyl terminal LIM domain protein (CLIM1) mRNA, complete cds	Homo sapiens karyopherin alpha 6 (importin alpha 7) (KPNA6), mRNA	601491529F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893839 5'	4p18b05.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609777 5'	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1 (DDX1) mRNA	Homo sapiens transmembrane trafficking protein (TMP21), mRNA	Homo sapiens transmembrane trafficking protein (TMP21), mRNA	Homo sapiens RAB36 (RAB36) mRNA, complete cds	hw14g06.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3182938 3' stmilar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN	Homo sapiens tissue-type bone marrow zinc finder protein 4 mRNA complete ode	Human mRNA for integrin alpha subunit, complete cds
lle Exon Pro	Top Hit Database Source	NT	LN	LN	FN	TN	NT	EST_HUMAN	N	TN	FZ.	N.	NT	LN	EST_HUMAN	EST HUMAN	Į.	LN LN		EST_HUMAN	EST_HUMAN	NT	TN	L	EST_HUMAN	EST_HUMAN	- L	ラ	ラ	ト	NT	EST HUMAN	NT	NT
Suis	Top Hit Acession No.	Y10498.2	1,29139.1	11527389 NT	11418086 NT	11418099 NT	11418086 NT	R06035.1	5031886		7.0E-44 AF048729.1			9.1			5.0E-44 AJ289880.1	<u> </u>		-	1.1	3.2		2477	6.1	1.1	4826685 NT	4826685 NT	5803200 NT	5803200 NT	8.1	5.1		П
	Most Similar (Top) Hit BLAST E Value	8.0E-44	8.0E-44	8.0E-44	8.0E-44	8.0E-44	8.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44	7.0E-44 AF23191	7.0E-44 AF23191	7.0E-44	6.0E-44	5.0E-44	5.0E-44 AJ289880		5.0E-44	5.0E-44 AU12457	4.0E-44 AL16330;	4.0E-44 U90878.1	3.0E-44	3.0E-44 E	3.0E-44 AA16985	2.0E-44	2.0E-44	2.0E-44	2.0E-44	2.0E-44 AF13358	2.0E-44 BE46532	2.0E-44 A	2.0E-44 D25303.1
	Expression Signal	3.39	5.06	2.59	1.89	1.75	1.84	0.85	1.2	2.2	2.2	2.28	1.17	1.17	2.05	2.51	2.52	2.04		3.79	2.59	2.9	13.3	1.07	1.54	5.08	2.75	2.75	4.63	4.63	2.79	1.43	2.03	1.1
	ORF SEQ ID NO:	28643	29038	25304	25191		25191						23821		26828	29080				26672		23086	28702		22254	22777	20793	20794	20945	20946	21052	21108	21894	22294
	Exan SEQ ID NO:	18377	18743	19031	19369	19532	19369	10580	12074	12864	12864	13698	14048	14048	16641	18791	10264	10288		16485	17317	13287	18433	11646	12360	12986	10951	10951	11099	11099	11197	11252	11994	12403
	Probe SEQ ID NO:	8504	8935	9359	9400	9742	9885	643	2187	2937	2937	3786	4148	4148	6762	8986	300	329	i	6000	/388	3368	8564	1746	2485	3029	1033	1033	189	1189	1290	1346	2105	2529

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Table 4
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Top Hit Descriptor	Homo sapiens adaptor-related protein complex 4. sigma 1 subunit (CLAPSA) mRNA	Homo sapiens DNA for amyloid precursor protein, complete cds	PM4-SN0016-120500-003-e04 SN0016 Homo sapiens cDNA	Homo sapiens chemokine (C-C motif) receptor 9 (CCR9) mRNA	Homo sapiens general transcription factor 2.1 (CTF2)) mRNA oltomotivoto anno de de de de de de de de de de de de de	Homo sapiens dutamate receptor, metabotronic 3 (GRMs) mRNA	Homo sapiens dutamate receptor, metahortonic 3 (GRM3) mRNA	601286914F1 NIH MGC 44 Homo saplens cDNA clone IMAGE: 3613586 F	TCBAP1E2795 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2795	Human mRNA for KIAA0376 gene, partial cds	Homo saplens cat eye syndrome chromosome region candidate 1 (CECR4) mBNA	Homo saplens Misshapen/NIK-related kinase (MINK) mRNA	Homo saplens Misshapen/NIK-related kinase (MINK) mRNA	RC1-CT0249-030300-026-h12 CT0249 Homo saniens cDNA	RC1-BN0039-110300-012-b01 BN0039 Home sepiens cDNA	Homo saplens chromosome 21 segment HS21C103	zw53d02.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:773763 5' similar to contains THR:3 THR repetitive element:	zw53d02.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:773763 5' similar to	288911.11 Soares, testis NHT Homo sapiens cDNA clone IMAGE:729476 5	Homo saplens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation denormants and the second of the	omos process, as american entranspersiones, upper Liny domain protein 6, and synaptophysin genes, complete ods; and L-type calcium channel a>	ae01c09.s1 Soares NhHMPu S1 Homo sapiens cDNA clone IMAGE:811984 3:	Homo saplens alpha satellite DNA. M1 monomer type	Homo sapiens alpha satellite DNA. M1 monomer fone	AV714608 DCB Homo saplens cDNA clone DCBBYE03 5'	Homo saplens Sushi domain (SCR repeat) containing (BK65A6 2) mRNA	RC1-CT0198-150999-011-C08 CT0198 Homo saciens cDNA	RC1-CT0198-150999-011-C08 CT0198 Homo sapiens cDNA	Homo sapiens hypothetical protein FLJ10379 (FLJ10379), mRNA
Top Hit Database Source		- LN	EST_HUMAN		Į.			T HUMAN		±N ±N				T HUMAN	1	± E			Т	14.7	본	EST_HUMAN a	N N	Į.	EST_HUMAN A		EST HUMAN R	T HUMAN	
Top Hit Acession No.	5901933 NT	-	79.1	11449901 NT	68.1	11419226	11419226 NT	3E389058.1	02.1	74.1	11526293	7657334 NT		132.1	l	13.2		14 1	19.1		9.1		1.0E-44 AJ130755.1	1.0E-44 AJ130755.1	18.1	10092664 NT	1.0E-44 AW846967.1	1.0E-44 AW846967.1	8922394 NT
Most Similar (Top) Hit BLAST E Value	2.0E-44	2.0E-44 D87675	2.0E-44 AW8643	2.0E-44	2.0E-44 AF0389	2.0E-44	2.0E-44	2.0E-44 BE3890	2.0E-44	2.0E-44 AB0023	2.0E-44	1.0E-44	1.0E-44	1.0E-44 AW853	1.0E-44 AW9948	1.0E-44	1.0E-44 AA4345	1.0E-44 AA4345	1.0E-44		1.0E-44 AF19677	1.0E-44 AA4558	1.0E-44 /	1.0E-44/	1.0E-44 AV71460	1.0E-44	1.0E-44	1.0E-44 /	9.0E-45
Expression Signal	3.32	1.36	1.76	1.39	1.46	3.86	3.86	1.88	2.22	2.72	1.38	3.64	3.64	1.85	1.52	5.54	3.53	3.53	1.05		1.39	5.08	-0.81	0.81	10,75	4.18	3.43	3.43	1.74
ORF SEQ ID NO:		23147	24152	25719	24870	26406	26407	27078		24910		19839	19840	20312			21965	21966	22024		22489		24702	24703		28918	28970	28971	24169
Exon SEQ ID NO:				15617	15107	16245	16245	16886	18816	19735	19383	10034	10034	10505	11090	11460	12064	12064	12716		12594	13578	14931	14931	18255	18629	18681	18681	14370
Probe SEQ ID NO:	2567	3425	4468	5709	2609	6383	6383	7009	9022	9710	9066	46	46	566	1179	1555	2177	2177	2237		2732	3664	5061	5061	8378	8816	8869	8869	4476

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						200	The state of the s
Probe SEQ ID NO:	_ o	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
4476	_	24160	1.74	9.0E-45		N	Homo saplens hypothetical protein FL J10379 (FL 110370) mDNA
2477	_	22245	3.9	8.0E-45		FZ.	Homo sapiens TRK-fused gene (NOTE: non-standard exmbh) and non-3 (TEC).
5015	14889	24656	7.49	8.0E-45	5174718 NT	N F	Homo saplens TRK-fused gene (NOTE: non-standard symbol and name) (TFG) mRNA
3896	13806		5.25	6.0E-45	6.0E-45 AW157570.1	EST HUMAN	au83h07.x1 Schneider fetal brain 00004 Homo sapiens Company clone IMAGE:2782909 3' similar to SW:R13A HUMAN PAMA29 ens BIRDS-DAMA BEDDERING AND SWINGER TO SWINGER TO SWINGER TO STATE THE SAME TO STATE THE SAME TO STATE TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME TO STATE THE SAME
9707			1.46	6.0E-45	Ė	NT	Homo sapiens ADP-ribosylation factor GTPase activation and in 1 (ABCABA)
874			1.11	5.0E-45	5.0E-45 AL163203.2	NT	Homo sapiens chromosome 21 segment HS210002
1957	11852	21739	5.01	5.0E-45	5.0E-45 BF333627.1	EST_HUMAN	CM4-CN0044-180200-515-f01 CN0044 Homo seniens CNNA
3173	13098	22904	2.01	5.0E-45	5.0E-45 AI523766.1	EST HUMAN	tg94f07.xt NCI_CGAP_CL1 Homo sapiens cDNA clone IMAGE:2116453 3' similar to SW:PAX1_MOUSE Posos4 PAIRED BOX PROTEIN PAX-1.
5384	15303	25155	8.8	5.0E-45	5.0E-45 AA397781.1	EST HUMAN	2t/2d03.s1 Soares_festis_NHT Homo sapiens cDNA clone IMAGE:727877 3' similar to contains element
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1127	11041	20883	8.96	4.0E-45	X95826.1	LN	H saniens ART4 dens
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9613			1.62	4.0E-45	4.0E-45 BF676077.1	EST HUMAN	6020840525 NIH MCC 92 Down Septemb CDNA done IMAGE:3538425 5
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6920			1.51	3.0E-45	Ļ	Т	AV723976 HTB Home saniens child class LTDA A Co. F.
7104		27173	3.44	3.0E-45	3.0E-45 4758451	N-	Homo sapiens doing antrapfigen golding subfamilian 2000 0000
7907	17757	27996	8.37	3.0E-45		Į.	Homo septens chromosome 31 sognesset IECA(Azaz
7907	17757	27997	8.37	3.0E-45			Homo sapiens chromosome 21 seament HS210027
9814			1.33	3.0E-45			H.sapiens DNA for endozenous retrouiral like element
2454	12331		2.17	2.0E-45 /			Homo sabjens chromosome 31 someout Lichtona
2996		22718	0.93	2.0E-45	2.0E-45 AJ243213.1		Homo sapiens partial 5-HT4 receptor cene excess 2 hr 5
5929	15834	25957	48	2 OF AR 10465F			
6489	16347	26516	1.75	2.0E-45	4.1	EST HIMAN	rruman eosinopnii Charcot-Leyden crystal (CLC) protein (lysophospholipase) gene, promoter and exon 1 สถาสตราชกระสามา เมื่อ ธารา
8179	19471	28315	27.64	2.0F-45	Ţ	T	MBO UT0023 400800 and contraction Sapietrs CUNA clone IMAGE:3870838 5
9576		000	1			T	aa87f12.r1 Stratagene fetal retina 937202 Homo sapiens cDNA clone IMAGE-838319 5' similar to
8704	10000	78027	3.96	2.0E-45/		ヿ	TR:G1144569 G1144569 R-SLY1.;
1010	900	26892	2.13	2.0E-45/	_		xp72a03.x1 NCI_CGAP_Ov40 Homo sapiens cDNA clone IMAGE: 2745вяя з
0/34	2008	28899	2.13	2.0E-45 /	2.0E-45 AW270280.1	T_HUMAN	xp72a03.x1 NCI_CGAP_Ov40 Homo saplens cDNA clone IMAGE-274stren 3
9633	19346		2.76	2.0E-45	11418157 NT		Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA

Page 221 of 413
Table 4
Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	601284360F1 NIH MGC 44 Home continue CDNA CL. 1140 CF 2000250 CF	601284360E1 NIH MigC 44 Home center CONA CHAIRE 1990 183 5	Homo saniens RAP14 member of DAS constant of 11.75 P. 12.	Homo sabians I angerhane cell energing a traction of ANOFOLIA.	Human pro-a2 chain of colladen time XI (COI 14.8.3) constitution	Homo sapiens chromosome 21 open reading frame 1 (2014) Table	Homo sapiens mRNA for KIAA1504 profess profess profess and care an	601289116F1 NIH MGC 8 Homo canians ANA Alma MA OF Actions 21	Homo sapiens niban protein (NIBAN) mRNA	601511226F1 NIH MGC 71 Homo saniens cDNA Alma WAGE 20135125F FT	Human mRNA for KIAA0299 cene, partial cds	Homo sanjene nrodeln kinace C aleka kindina seekii. Oonisanii	Homo sepiens hypothetical protein El 20048 / El 19048 /	Homo saniens Ran G Tesse activating anglain 4 (DANIOARS)	Homo sapiens calcium channel voltage demoder alter a	Mus musculus kerafin complex 2 dans 8 "Victo 6" - Dans	iomo caniene chromocomo 24 comment 1000 com	2822449 Sprime NILL MCC 7 U	132/08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb.J00314 ma2	TUBULIN BETA-1 CHAIN (HUMAN);	t32f08.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2132199 3' similar to gb:J00314_ma2_TUBULIN BFTA-1 CHAIN (HI IMAN).	RC5-HT0506-280200-012-C12-HT0506 Home series: CNM	601277292F1 NIH MGC 20 Home carrians ODNA April 10 MGC 20 Home Carrians ODNA APRIL 10 MGC 20 Home Carrians ODNA APRIL 10	RC4-BT0310-110300-015-f10 BT0310 Homo caplane ANA	Homo satisfies hypothesis in 1902 In 1905	60182288351 NIH MCC 77 U.	Homo sapiens chromosome 21 segment HS3/2048	wm31fb8.x1 NCI_CGAP_Ut4 Homo sapiens CDNA done IMAGE:2437575 3' similar to contains MER19.t2 MER19 repetitive element	wm31f08.x1 NCI_CGAP_Ut4 Homo sapiens cDNA done IMAGE:2437575.3' similar to contains MER19.t2 MER19 repetitive element	FEOLAT AND COATE WITH
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	Expression Signal	222	2.7	1.5	1.7	6.78	1.04	0.81	4.08	1.05	5.22	1.25	4.3	5.38	2.56	3.17	2.28	6.71	7.89	02. 0	0.78	8.79	3.97	6.54	1.01	4.01	1.35	1.35	5.53	5.53	
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Page 222 of 413 Table 4 Single Exon Probes Expressed in Heart

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 | no54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X53741_ma1_FIBULIN-1, ISOFORM A PRECURSOR (HUMAN): | hi86c03.x1 NC_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3008836 3' similar to gb:X14008_ma1
LYSOZYME C PRECURSOR (HI IMAN):contains element MED27 | hi86c03.xf NCi CGAP 1.124 Home savians claus Advanta Act connection

 | LYSOZYME C PRECURSOR (HUMAN) contains element MERS2 paraetting alounger to gb:X14008_rns1 | Human endogenous retrovirus RTVI_H2

 | Homo sapiens mRNA for KIAA0622 profein partial cde
 | Homo sepiens mRNA for KIAA0622 profein partial cds | Human ig germline gamma-3 heavy-chain gape V region, partiel cde | Human lg germline gamma-3 heavy-chain gene V region, partial ade | Homo sapiens DNA for Human P2XM, complete cds | Homo saplens mitogen-activated protein kinase kinase kinase kinase 3 / AAA DAK 21

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onigie choi riones capiessed in heart	Top Hit Descriptor	zf59e02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726650 5' similar to SW:RSP1_MOUSE	Mus musculus snerm fail asservated protein (Stran) DNIA	601445137F1 NIH MAC BE Home company of the little was a second of the littl	Homo sapiens small acidic wideln (MAACE44050) Data	1801785225F1 NIH MGC 53 Home satisfies CONA clean MACE 20072 62	W32d01.r1 Spares fetal liver spleon 1NETS Homo springs about 114 of 1900 and 1	XZZBHO3 XI NCI CGAP 1:34 Home sensions appears COLIVA GOILL SECTION 1 5	Homo sapiens cell division cycle 10 (homologous to CDC40 - 5	EST390R95 MAGE recentings of MAGE Local Control of S. Cerevisiae) (CJC10) mRNA	EST486095 WATMI Home continue only alternatives of the continue only alternative of the continue of the contin	PT78b02.s1 NCI_CGAP_PT2 Homo sapiens cDNA done IMAGE:1132395 sImilar to gb:X76717 H.sapiens	INIT-II MIKINA, (HUMAN),	Zephy v NPI Corb Ode I	Homo sanions contained also a contained to the contained	Homo sapiens centaurin-alpha 2 protein (HSAZ/2195), mRNA	7692601 v. N.C. CSAP, Orda Hamasonica, Park J. H. H. P. P. P. C. P. P. P. P. P. P. P. P. P. P. P. P. P.	602072264E1 NCI CCAP Brief House activities and him an	602072264F1 NCI COAP BIRKY Home sapiens CONA clone link GE 4215398 5	AV715377 DCB Home seniers cDNA close actions and actions and actions are actions and actions and actions are actions actions are actions actions and actions are actions actions are actions actions actions are actions actions actions are actions actions actions actions are actions actions actions actions are actions a	Homo sabiens Xo oseudoantosmal regions segment 4/2	hig3e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3009534 3' similar to TR:O75703 O75703	Homo seplene SEC/4 (S. constalled Mr. S. constal	Home capiens of of A Career 19 1 (5) Cale of State of the Control	Home certains III A C	Homo contains article - Gene, exon 5, Individual 19323	Homo sanions 050 bh conflictions All I Care.	Homo sabiens chromosome 21 commet US23.55	198h02 v1 NCI CGAP Kida Long conjugation 1921 (1948)	Homo sapiens CDC37 (cell division owile 37 S. parenteins L. M. A. Constanting L. Constanting CDC37 (cell division owile 37 S. parenteins L. M. Constanting CDC37 (cell division owile 37 S. parenteins L. M. Constanting CDC37 (cell division owile 37 S. parenteins CDC37 (cell division owil	EST00738 Fetal brain, Stratagene (cat#938200) Homo sapiens cDNA clone HFBCF07
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	Expression Signal	1.15	6.78	1.17	1.87	1.75	1.44	3.81	5.19	4.6	2.59	2 84	2.64	4.18	5.66	5.66	4.26	1.43	1.43	1.53	4.51	261	<u>8</u> .	14.02	14.02	1.74	1.72	3.05	6.27	5.27	3.91
	ORF SEQ ID NO:	24555	26442					25136	20970	22023	22128	22936		25477	L		25477	25348	25349			24512	25001	21539	21540	22439	22712	22266	27411	25990	
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	Probe SEQ ID NO:	4899	6418	6703	8571	9157	9409	9728	1213	2236	2351	3211	4772	5495	5636	5636	8236	9188	9188	9925	749	4848	9682	1766	1766	2684	2989	2501	7344	5963	8174
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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	yf92e08.s1 Soares infant brain 1NIB Homo sepiens cDNA clone IMAGE:29966 3' similar to contains OFR repetitive element	Homo sabiens chromosome 21 segment HS21Chho	qp99h03.x1 Soares fetal lung NbHI 19W Home canians albu A - 1 144 or 120 20 20	601155321F1 NIH MGC 21 Homo sanians CONA Alma MA CE 21231189 3	601155321F1 NIH MGC 21 Homo seniens CONA done MA CE-2136893 5	RC3-ST0197-130400-017-h02 ST0197 Homo seniens cDNA	at19e06.x1 Barstead aorta HPLRB6 Homo septems cDNA clone IMAGE:2355586 3' similar to gb:M22995 RAS.RFI ATED PROTEIN DAD 4A ALII MAANA.	Papio hamadivas alcohol dehydrocenase class I (ADH) gene E' maion	Homo sapiens calclum channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	CW2-MT0100-310700-290-405 MT0100 Home caries a DNIA	60/3/04/9F1 NIH MCC 44 Home emisse ablit all the process of the pr	Homo sapiens aminoaculase 1 (ACY4) mRNA	Homo saplens aminoaculase 1 (ACY1) mRNA	hk61b03.x1 NCI_CGAP_Lym12 Homo saplens cDNA clone IMAGE:3001133 3' similar to gb:X64707 BREAST BASIC CONSERVED PROTEIN 1 (HI IMAN):	hk61b03.x1 NCI_CGAP_Lym12 Homo sepiens cDNA clone IMAGE:3001133 3' similar to gb:X64707	Homo sapiens mRNA for KIAA1200 matein and in July	Homo sapiens mRNA for KIAA1209 modein martial cals	Homo sapiens tousled-like kinase 1 (TLK1) mRNA	Homo sapiens SET domain and mariner transposase fusion nene (SETMAR) mRNA	Homo sapiens histidyl-tRNA synthetase (HARS), mRNA	Homo sapians putative oncodene protein mRNA partial cds	Homo sapiens hypothetical protein FLJ11006 (F. J11006) mRNA	2q45b06.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632627 3' similar to	Homo sapiens phosphortlesterase 10 colmod-life documents (ADECA).	tu47a02 x1 NCI CGAP Prog Home control of the little of the control	AV690964 GKC Homo sapiens clinia capiens clinia in Richard CKC Homo sapiens clinia ciking cik	Homo sapiens chromosome X open reading frame 6 (CXODES) BNA	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
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Expression Signal	1.98	1.32	4.5	0.79	0.79	2.59	7.68	1.75	234	0.83	3.22	1.32	1.51	3.62	3.62	1.37	13.37	1.12	3.49	22.88	1.52	1.9	3.38	1.39	3.55	0.92	18.97	18.97
ORF SEQ ID NO:	24988			23443	23444	24648	26086	28017	21358	23228	28595			22818	22819	·		21250	21382	25975	27348	27577	27654	22989	28451	21124	21710	21711
Exan SEQ ID NO:	19658	19659			13662	14882	15954	17778	11499	13425	18333	11138	11138	13023	13023	10426	10426	11387	11524	13832	1/192	17370	17438	15067	18202	11269	11828	11828
Probe SEQ ID NO:	9219	9257	1383	3749	3749	2008	6194	7928	1595	3509	8460	1230	1231	3096	3096	482	483	1482	1620	3947	(2/0	(200	7587	3269	8325	1363	1933	1933

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Top Hit Descriptor	h14b/2x7 NCI_CGAP_GU1 Homo sepiens cDNA done IMAGE:2972255 3' similar to SW:DCRB_HUMAN P56555 DOWN SYNDROME CRITICAL BECINA DECITION	MR4-BT0657-060400-201-e10 BT0657 Homo carrians c/NA	nv03f05.s1 NCI_CGAP_Pr22 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1	III-H-BW1-ani-a-10-0111 ca NOT COAD SILTIFIE	firffo? Regional genomic DNA specific cDNA livrary Lower country.	TCBAP1D3842 Pediatric pre-B cutie lymphoblastic leukemia Baylor-HGSC project=TCBA Homo	modemin st NCI CGAP Phot Home continued in the	not 84 it it is not control of the plant of the property of the post of the post of the plant of	Homo saniens mRNA for KIAA 1504 - 243:	Homo saplens mRNA for KIAA1501 protein partial rus	Homo sapiens v-rel avian reticuloendothellosis vital onceane homolog A (nuclear factor of kappa light	AV743451 OB Home saniers o'DNA class OCCOCA ET	280cf 1 Sparse Clear NHLOT U	601305064F1 NIH MGC 30 Home confee Child III	Homo saniens displaying the property of the control	Homo servino contrata Let. (A.s.)	Homo capters anything beta (A4) precursor protein (protease nextin-II, Alzheimer disease) (APP), mRNA	Homo sapiens chromosome 24 segment Usar 2450	Homo sapiens chromosome 21 segment DO2/O1/2	Human endocencia retroviral DNA (4.1) complete control.	Homo sabiens huntingth (Huntingthan disease) (UE)	Homo sapiens mRNA for KIAA1245 prodein merital ada	601888096F1 NIH MGC 17 Home senions - DNA - June 1948 CE - 425242 E	Homo sapiens B cell linker protein (St Dast , m.DNA	Homo sapiens B cell linker protein (SL DAE) mBNA	Homo saplens dopamine transporter (SI CRA3) points and the company of the company	Homo sapiens dopamine transporter (SI CRA3) rems complete ad-	15d6 Human retina cDNA randomiv primad sublitivam una	Mus musculus T-box 20 (Tbx20), mRNA
Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HIMAN	EST HIMAN	EST HIMAN	LN	N	L	EST HUMAN	EST HUMAN	EST HUMAN	NT.	NT.	TN	Į			Z.	IN	T HUMAN				IN	EST HUMAN	
Top Hit Acession No.	3.0E-48 AW664531.1	3.0E-48 BE084571.1	3.0E-48 AA659930.1	BF514170.1	2.0E-48 AA631940.1	BE246065.1	AA613171.1	AA613171.1	2.0E-48 AB040934.1	2.0E-48 AB040934.1	11496238 NT	AV743451.1	AA465007.1	BE737154.1	1.0E-48 7706534 NT	4502166 NT	5032032 NT	1.0E-48 AL163302.2		Γ	4755137 NT		1.0E-48 BF304683.1	8086	11429808 NT	1.0E-48 AF119117.1	7.1	-	10048417 NT
Most Similar (Top) Hit BLAST·E Value	3.0E-48	3.0E-48	3.0E-48	3.0E-48	2.0E-48	2.0E-48 BE2460	2.0E-48 AA6131	2.0E-48 AA6131	2.0E-48	2.0E-48	2.0E-48	2.0E-48 AV7434	2.0E-48 AA46500	2.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48 M10976	1.0E-48	1.0E-48 AB0330,	1.0E-48	1.0E-48	1.0E-48	1.0E-48	1.0E-48 AF11911	1.0E-48 W26785.	8.0E-49
Expression Signal	0.88	2.35	2.86	7.08	1.18	1.35	72.29	72.29	4.29	4.29	2.9	2.39	2.45	1.63	0.85	6.93	3.26	44.65	1.23	1.1	2.21	5.72	4.48	5.06	5.06	1.73	1.73	1.56	2.95
ORF SEQ ID NO:		25582		28376	19827	24114	25539	25540	26464	26465	26473	26936	24828	25070	19844	20632	21032	21648	23167	24728	26325	27404	27586	28023	28024	29094	29095		25702
Exan SEQ ID NO:		15507		18128	10027	14326	15469	15469	16301	16301	16308	16743	15082	19579	10037	10782	11182	11772	13360	14952	16167	17205	17377	17784	17784	18802	18802	19606	15601
Probe SEQ ID NO:	3579	5592	6883	8248	8	4431	. 5553	5553	6440	6440	6447	6864	9184	9511	£0	855	1274	1876	3443	2087	6303	7337	7526	7934	7934	6668	8999	9145	5692

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- 1			_	_	_	-	_,			_	_			_	,						Interest							<u></u>	La ~
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Mus musculus T-box 20 (Thx20) mBNA	Human inosital 1.4.5 hisphosphale resentor time 1 men A. martial and	Homo sabiens professome (hosoma macronain) 285 c. Inchinit A TD 4 (1991) 251	Homo sapiens professome (prosome measonin) 265 and 11, ATP	Homo saplens proteasome (prosome, macronain) 26S subunit, ATPage, 4 (PSMC4) mRNA	Homo sapiens proteasome (proxime markensis) 28S expensity 11 889, 4 (* 2010-4) INNA Homo sapiens proteasome (proxime markensis) 28S expensity 11 889, 4 (* 2010-4) INNA TOTAL COLUMN TOTA	Homo sapiens proteasome (prosome, macropain) 26S surhimit ATDage 4 (POWCA) - DNA	Homo sapiens professome (increment) 2RS customit, 711 889, 4 (*2)MC4) INKINA	Homo saplens chromosome 21 segment HS21Ch84	HYPOTHETICAL PROTEIN DJ8450243	WZ5h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356663 3' similar to TR: O54923	DKFZp762C033 s1 762 (suponum: hmel2) Home carriers -DNIA street External Suponum:	Preference of Mile Mode Applications and Management Country Country Applications of Mile Mode UK-Zp/62C033 3	passgub.X1 NIH MGC_10 Homo saplens cDNA clone IMAGE:2900504 3' similar to gb:X17208 40S RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mause LLRep3 protein mRNA from a repetitive element,	Campieus (woodsz.),	FST7755 Pennese himor III Home control of the Party of th	FST7755 Panceas temor III Uses 1500 Page 1500	7/3908 81 Soares felal lines enform 4NETS CALL	Homo sabiens chromosome 24 segment Locatora	Homo sapiens chromosome 21 segment HS21C010	2p29c07.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' similar to	Homo contaction that is the PROTEIN, contains LTR7.B LTR7 LTR7 repetitive element;	Trains Septembly Burgers (2013) MRNA, complete cds	violeto sapiens similar to ribosomal protein S27 (metallopanstimulin 1) (H. sapiens) (LOC63362), mRNA xi08b01.x1 NCl CGAP Lif4 Horn sapiens cDNA class 1848 CE-20275020	CE06703; CE06703; CENTRA SEPTENDE CONTROL INTO CENTRA SEPTENDE INTO CENT	Z9005.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMARGE-682077 51	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	H.sapiens mRNA for acetyl-CoA carboxylase
gie Exon Pror	Top Hit Database Source	Į.	Z	LN LN	L L	NT.	N L	ħ	L'N	P	SWISSPROT	EST HIMAN	EST HUMAN		ECT LINAN	EST HIMAN	FST HIMAN	EST HIMAN	Т	Т	NT.		NT TOWNS				EST_HUMAN	<u> </u>	
	Top Hit Acessian No.	10048417 NT		5729990 NT	5729990 NT	5729990 NT	5729990 NT	5729990 NT	5729990 NT	7.0E-49 AL163284.2	060811	7.0E-49 Al807191 1	7.0E-49 AL120937.1		W7347404	4W452218 1	VA366556 1	6.0E-49 AA366556.1	6.0E-49 AA707567.1	5.0E-49 AL163210.2	5.0E-49 AL163210.2	7		14 49 69 5 5	1450533	4.0E-49 AW189533.1		36.1	-
	Most Similar (Top) Hit BLAST E Value	8.0E-49	8.0E-49 U23850	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49	7.0E-49 O6081	7.0E-49	7.0E-49		6 0F 49 AW734	6.0E-49 AW 452	6.0E-49	6.0E-49	6.0E-49/	5.0E-49/	5.0E-49	5 0F-49 AA1721	5.0E-49 U17714	70 T		4.0E-49	4.0E-49 AA2107	4.0E-49	3.0E-49 X68968.
	Expression Signal	2.95	3.19	1.47	1.47	1.74	1.74	1.99	1.99	4.05	0.95	8.	1.34		11.77	2.92	2.69	2.69	3.43	3.37	3.37	700	5.18		5	37.46	243	3.3	0.93
	ORF SEQ ID NO:	25703			20158		20158	20157	20158	20958	24227	25100	25107		19979	28738	29022	29023		20452	20453	21524	22477	22957		20266			20298
	Exan SEQ ID NO:	15601			10335		_]		J	11112	14443	15271	16277		10162	18467	18728	18728	19498	10628	10628	11653	12583	13159		10456	19710	19090	10489
	Probe SEQ ID NO:	5692	6827	134	134	388	388	388	88	1202	4650	5351	6357		190	8600	8920	8920	9507	695	695	1753	2721	3235		514	9376	9459	248

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Single Exon Probes Expressed in Heart

Part Extra Control Fig. Control Fig. Control Fig. Control Fig. Control Fig. Control Fig. Fi				Т	Т	Т	Т	Т	Т	0	T	Т	\neg	Т	T	Т	Т	Т	一"	T****	4	Ψ.	T	"т	Ť	" ٢	٣٣	т	""	~	, march
SEC ID ORF SEQ Expression Top Hit Top Hit Acession Top Hit Top	oes Expressed in Heart	Top Hit Descriptor	ze31c05.r1 Soares retina N2b4HR Homo sepiens cDNA clone IMAGE:360584 5' similar to contains L1.t3 L1 repetitive element:	Human type IV collagen (COL 4A6) gene exon 40	EST25e12 WATM1 Home sapiens cDNA clone 25e12	EST42572 Endometrial tumor Homo saciens cDNA 5' end	MR3-HT0487-150200-113-g01 HT0487 Homo saplens cDNA	yk23406.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE: つおつち777 だ	Homo sapiens RNA binding protein II (RBMII) gene, complete cds	oz88d02.x1 Soares_senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN);contains Alu repetitive element;contains element MER22 recetitive element:	UI-H-Bit-ans-d-02-0-11 st NC1 CGAP Subs Home seemen and A decided in st NC1 Subsequent	AV717838 DCB Home saniars CDNA close DCRAI BA E	EST02558 Fetal brain Stratamene (rettlemene) Home continue abblidation	Homo saplens SNCA Isoform (SNCA) nene complete cite alternatively california	601458531F1 NIH MGC 66 Homo sapiens cDNA close IMA CF-38F3086 F	601115769F1 NIH MGC 16 Homo sepiens cDNA clone IMAGE 335R573 F	601820053F1 NIH MGC 58 Homo seniens cDNA clone IMAGE - 4052052 F1	601290330F1 NIH MGC 8 Homo sapiens cDNA clone INA CET-RESIDER E	601290330F1 NIH_MGC_8 Homo sepiens cDNA clone IMAGE:3620863 5	w78g12.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:258409 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN)	W78g12.s1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:258406.3' similar to db:X65873 KINESIN HEAVY CHAIN (HI IMAAN)	Homo saplens succinate-CoA ligase, GDP-forming sinhs submit (S1701.04) DNA	Homo sapiens succinate-CoA ligase, GDP-forming alpha submit (SUC), IIII VA	601300992F1 NIH MGC 21 Homo seniens CDNA clone IMAGE Reseaso E	DKFZp434D2423_r1 434 (synonym; htes3) Homo sapiens cDNA clone DKFZp434D2422_c	Homo sapiens brefeldin A-inhibited quantine nucleotide-exchange protein 1 (BIC4) mPNA	MR0-HT0407-010200-006-f02 HT0407 Homo saniens cDNA	Homo sapiens cadherin EGF LAG seven-bass G-tune recentor 1 (CEI SD4)	Homo sapiens glycine N-methylransferase (GNM/T) gene complete ods.	Homo sepiens chromosome 21 segment HS21C002	Homo sapiens mRNA for VIP receptor 2
Expn NO: ORF SEQ Signal Expression Signal (Top) Hit BLAST E Value Top Hit Acess No. 12479 14788 24564 24564 2.01 2.03 3.0E-49 3.0E-49 3.0E-49 14690.1 AA016131.1 1.0P Hit Acess Value 12479 14580 24664 2480 2.03 3.0E-49 3.0	gie Exon Prot	Top Hit Database Source	EST HUMAN	IN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN		HUMAN			П			T HUMAN				
Exon No: ORF SEQ ID Signal Signal Signal Signal Signal Signal Signal Signal No: Moss Signal Signal Signal Signal Signal Signal Signal No: Moss Signal Signal No: Moss Signal Signal Signal Signal Signal No: Moss Signal Signal No: Moss Signal Signal No: Moss Signal No: Moss Signal Signal No: Moss Signal No:	NIN NIN	Top Hit Acession No.	AA016131.1	U46999.1	H39479.1	AA337561.1	BE165980.1			A)167357.1	3F511846.1	l			3F035327.1	3E255216.1						11321580	11321580		29.2	11427366		11418322			
Exon ORF SEQ Express SEQ ID NO: Signs 12479		Most Similar (Top) Hit BLAST E Value	3.0E-49	3.0E-49	3.0E-49	3.0E-49	2.0E-49	2.0E-49	2.0E-49	2.0E-49	2.0E-49	2.0E-49	2.0E-49	2.0E-49	1.0E-49	1.0E-49	1.0E-49	1.0E-49	1.0E-49	1.0E-49	1.0E-49 t	1.0E-49	1.0E-49	1.0E-49	1.0E-49 /	1.0E-49	1.0E-49 E	1.0E-49	9.0E-50 /	8.0E-50 /	8.0E-50
Exon SEQ ID OR! SEQ ID ID ID ID ID ID ID ID ID ID ID ID ID		Expresslon Signal	2.01	2.08	9.6	2.3	2.66	1.4	0.93	1.12	125	1.47	1.97	1.53	3.95	2.58	4.97	2.93	2.93	2.17	2.17	1.29	1.29	1.22	1.21	3.88	1.73	2	1.06	2.59	1.89
▕▀▀▀▀▀▝▀▀▀▎▀▀▄▙▆▎▀▟▄▊▄▋▄▋▄▐▄▄▃▗▗▝▗▗▋▗░▗▊▄░▄▐▗░ ▁▋▗▋ ▕▎ ▎▕▕▕▕▕▐▕▕▕▕▍▍									23235	24373	24381	26075				21531	25011	26307	26308	26346	26347	26777	26778	27262	27924	28769				19951	20460
Probe SEQ ID NO: NO: 2611 4909 6287 6287 6289 6287 6289 6287 6289 6287 6709 6709 6709 6709 6709 6709 6709 670		Exon SEQ ID NO:	12479	14788		18487	10582	13110	13437	14579	14590	15943	16597	19599	10807	11659	15210	16151	16151	16185	16185	16589	. 16589	17071	17680	18495	18813	19035	14802	10136	10635
		Probe SEQ ID NO:	2611	4909	6386	8621	645	3185	3521	. 4693	4704	6040	6717	9467	881	1760	5289	6287	6287	6322	6322	6209	6709	7200	7830	8630	9018	9367	4923	<u>\$</u>	702

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Single Exon Plobes Expressed in Reart	t Similar Top Hit Acession Database AST E No. Source	8.0E-50 X95097.2 NT Homo sapiens mRNA for VIP receptor 2	8.0E-50 AF000573.1 NT Homo sapiens homogentisate 1,2-dloxygenase gene, complete cds	8.0E-50 4501890 NT Homo sapiens actinin, alpha 1 (ACTN1) mRNA	8.0E-50 7706394/NT Homo saplens p47 (LOC51674), mRNA	7706394 NT	4826658 NT	8.0E-50 AA633467.1 EST HUMAN GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN):	EST HUMAN	EST HUMAN	EST HIMAN	9.1 EST HUMAN	EST HUMAN	8.1 EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NAMI H	NT	3.0E-50 AA746142.1 EST_HUMAN ob03f08.s1 NCI_CGAP_Kid3 Homo saplens cDNA clone IMAGE:1322627.3'	3.0E-50 AW755254.1 EST HUMAN Cardiomyopathy associated gene 5	11421514 NT		3.0E-50 AF233436.2 INT cds	3.0E-50 AF233436.2 NT cds	3.0E-50 AB048818.1 NT Homo sepiens mRNA for KIAA1598 protein, partial cds	3.0E-50 AJ245621.1 NT Homo sapiens CTL2 gene
Sills	Top Hit Acession No.	.2		4501890	7706394	7706394	4826658		Ī	Γ		9.1	9.1	8.1					T	Γ	54.1	11421514		T		18.1	7.1
	Most Similar (Top) Hit BLAST E Value	8.0E-50			L	8.0E-50		8.0E-50	_		6.0E-50	8.0E-50	6.0E-50			5.0E-50	5.0E-50	4 05-50 /	3.0E-50	3.0E-50	3.0E-50	3.0E-50	1	3.0E-50,	3.0E-50 /	3.0E-50	3.0E-50
	Expression Signal	1.89	1.21	2.51	1.36	1.36	1.69	2.1	96.0	9.52	4.47	3.17	3.17	0.85	0.85	5.64	1.85	1 29	2.45	1.14	4.6	1.55		4.01	4.01	1.17	5.94
	ORF SEQ ID NO:	20461		21497						28273		28326					29086			22981	23392	26180	-	26540	26541		28153
	Exan SEQ ID NO:	10635	10934		12309		12531	18528	10539	18027	16660	L	L	L	11652	17132	18795	10824	1	13182	13606	16039	1000	16354	16364	17499	17909
	Probe SEQ ID NO:	702	1016	1727	2432	2432	2666	8711	603	8139	6781	8190	8190	1752	1752	7266	8991	88	1896	3259	3692	6056	1000	cnco	6505	7649	8760

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Top Hit Descriptor	Homo saplens MHC class 1 region	Homo saplens midline 1 (Opitz/BBB syndrome) (MiD1) mRNA	Homo sapiens decorin D mRNA, complete cds, alternatively spliced	Human HALPHA44 gene for alpha-tubulin, exons 1-3	Human HALPHA44 gene for alpha-tubulin exons 1-3	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	PM3-BN0137-290300-002-q11 BN0137 Homo sepiens, c/NA	PM3-BN0137-290300-002-011 BN0137 Home samiens (2014)	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens Xg pseudoautosomal region: segment 1/2	2k51c09.r1 Soares pregnant uterus NbHPU Homo saniens cDNA close IMA GE-19835.5 Er	np98e09.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1144440 3 similar to gb:X12671_ma1 HETEROGENEOUS NITCLEAR RIBONILIC FORDATEM A4 full MAAN.	Homo sapiens PDZ-73 notein (PDZ-73ANZ-C) - 381 mPNA	AU138550 PLACE1 Homo seniens china pl ACE1008887 8	QV4-NT0028-200400-180-d05 NT0028 Home saniens CDNA	xn34a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2695564 3' similar to TR:Q9Z340 Q9Z340 ATYPICAL PKC SPECIFIC BINDING PROTEIN	DKFZp434B2229 r1 434 (swnonym: blass) Homo sanjens cDNA clans DKEZ-49 (Boxes Fi	DKFZp434B2229 11 434 (synonym: hhas3) Homo saniens cDNA clone DKFZp434B2229 5	UI-H-BW0-alp-b-05-0-UI s1 NCI CGAP Sub6 Home saniens CDNA close MAAGE-2720847 31	Homo saplens KIAA0929 protein MsvZ Interacting nuclear tarnet (MINT) homolog (KIAA0920)	Homo sapiens KIAA0929 profein Mey2 interacting minima to be and AMNEY.	Homo saplens solute carrier fermin 2 (Fermilitated educace transport of the Manual of	Homo sapiens solute carrier family 2 (facilitated chinose transmorter) member 6 (51,0249), mKNA	Human haptoglobin related (Hor) gene exnn 3	Homo sapiens miloden-activated protein kinase kinase 1 (MKK4) rene	Homo sapiens mitoden-activated brotein kinase kinase 1 (MKKA) rang 2007 4	Homo sapiens cerebral cell adhesion molecule (1 OC51148) mRNA	Homo sapiens B9 protein (B9), mRNA	Homo sapiens interleukin 17 receptor (IL17R), mRNA
Top Hit Database Source	N	L	NT	L	IN.	TN	NT	EST HUMAN	EST HUMAN	LN	LN.	EST HUMAN	EST HUMAN	N	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	L N	Ę	NT.	μ	N	N.	N.			
Top Hit Acession No.	AF055066.1	4557752 NT	10	2.0E-50 X06956.1	X06956.1	9910293 NT	9910293 NT	1.0E-50 BE007080.1	1.0E-50 BE007080.1	29.5	35.1	9.0E-51 AA043738.1	4A610842.1	11439587 NT	AU138590.1	4W889219.1	AW274720.1	7.0E-61 AL079628.1	AL079628.1	7.0E-51 AW295603.1	7657266 NT	7657266 NT	9910553INT	9910553 NT	1	6.0E-51 AF070083.1	6.0E-51 AF070083.1	11429665 NT	7661535 NT	11526289 NT
Most Similar (Top) Hit BLAST E Value	2.0E-60	2.0E-50	2.0E-50 AF1383	2.0E-50	2.0E-50 X06956	2.0E-50	2.0E-50	1.0E-50	1.0E-50	1.0E-50 AL1632	1.0E-50 AJ2717	9.0E-51	8.0E-51 AA6108	8.0E-51	8.0E-51 AU1385	7.0E-51 AW8892	7.0E-51 AW2747	7.0E-61	7.0E-51 AL07962	7.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51 X01788.	6.0E-51	6.0E-51	6.0E-51	6.0E-51	6.0E-51
Expression Signal	4.91	4.6	18.02	6.27	6.27	1.53	1.63	1	-	2.1	8.98	1.22	4.89	2.34	1.28	1.36	0.83	1.26	1.26	2.38	5.3	12.92	0.78	0.78	2.26	6.68	6.68	2.16	2.26	1.72
ORF SEQ ID NO:		20823	21197				27762	20018		20215	_	27450	24151	26546	-	22967	23042	23757	23758	23927	21714	23150	23887	23888	25651	25656	25657	24859	27649	28716
Exan SEQ ID NO:	10691	10979	11330	16802	16802	17536	17536	10204	10204	10398	12195	17244	14361	16369	17257	13168	13238	13978	13978	14153	11831	13345	14110	14110	15558	15562	15562	15116	17434	18448
Probe SEQ ID NO:	761	1063	1425	6924	6924	7686	7686	235	235	454	2314	7375	4467	6510	7448	3245	3317	4076	4076	4254	1936	3428	4212	4212	5645	5650	5650	6158	7583	8580

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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens chromosome 21 segment HS34Con3	Homo saplens T-cell lymphoma invasion and materiaris 4 (TIAM). This	Nove human nene manning to champsome Y	Homo sanians 26S professione sessicified and homely (2011)	Homo sapiens mRNA for nucleonarin 155	Human Ku (p70/p80) subunit mRNA complete od:	Human Ku (b70/b80) subunit mRNA complete cds	Homo sapiens mRNA for KIAA441 profess nationals	Homo sablens RNA binding molif protein a (PRNA) menn	tr81c08.X1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M28326 KERATIN_TYPE CYTOSKE FTAL 48 FHI MAAN!	tr81c09.x1 NCI_CGAP_Pan1 Homo september SDNA done IMAGE:2224720 3' similar to gb:M26326	Novel himso gene manufactor characters (HUMAN);	Novemental gene inapping to cromosome 22	ya47c08.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:53233 5 similar to gb:M14123_cds4	Human hnRNP C2 protein mRNA	Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Homo saptens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman	601285694F1 NIH MGC 44 Home canions of NA class 11/10 Cross 200	601285694F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3607463 5	### 30a05.11 Stratagene NT2 neuronal precursor 937230 Homo sapiens cDNA clone IMAGE:664880 5' similar to TR G233228 G233228 PTUI LI DEDITTEIN	ti27a03 x1 NCI CGAP Ki414 Home conjune and a limit of conjune	UI-H-BIT-edi-d-02-0-11 st NCI CRAP Strike Home cone invade: 2131732 3	601470446F1 NIH MGC 67 Homo seriens CNNA Admin MA CE 2027 CH	601676787F1 NIH MCC 24 Home septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law of septem of the law	601676787F1 NIH MGC 21 Homo saniens CDNA clare IMAGE 3056643 51	1874-807-x1 NCI_CGAP_GC6 Homo sapiens cDNA close INAGE:2236980 3' similar to SW:TRKC_HUMAN CO16288 NT-3 GROWTH FACTOR DECENDED PERSON INGGE	MR3-H70487-150200-113-g01 H70487 Homo sapiens cDNA
	Top Hit Database Source	¥	LN.	NT	NT.	Į.	IN	NT	NT	TN	EST HUMAN	EST HIMAN	TN		EST HUMAN	Z L	IN	<u> </u>	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	
	Top Hit Acession No.	5.0E-51 AL163203.2	4507500 NT	5.0E-51 AL133204.1	5031980 NT	A.J0075	5.0E-51 M30938.1	5.0E-51 M30938.1	5.0E-51 AB037832.1	5803136 NT	3.0E-51 Al587348.1	1 2	42.1		R15914.1	M29063.1	28.1	4507798 NT	2.0E-51 BE391063.1	Γ	22.1	5.1	26.1			Γ		2.0E-51 BE165980.1
	Most Similar (Top) Hit BLAST E Value	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	5.0E-51	3.0E-51	3.0E-51 AI58734	3.0E-51		3.0E-51 R15914	3.0E-51 M29063	3.0E-51 AF0035;	2.0E-51	2.0E-51	2.0E-51	2.0E-51 AA2333	2.0E-51 AI49241	2.0E-51 /	2.0E-51	2.0E-51	2.0E-51	2.0E-51	2.0E-51
	Expression Signal	10.92	1.47	1.37	0.84	11.48	1.08	1.08	2.34	3.72	0.92	4.16	2.13		1.73	5.87	1.58	1.81	1.08	1.08	2.24	221	1.02	2.96	1.61	1.61	1.68	5.25
	ORF SEQ ID NO:	20543	20557							28739	19926	20917	23906		26500			20139	20424	20425	21431	23373	24071	25670	27114	27115	27652	27600
	Exan SEQ ID NO:	10704	10715	i						18468	10104	11072	14130		16333	17008	19233	10318	10607	10607	11564	13586	14288	15573	16924	16924	17348	17390
	Probe SEQ ID NO:	774	786	975	1590	2548	3863	3863	2002	8601	130	1159	4232		6474	7131	9675	362	673	673	1662	3672	4392	2995	7047	7047	7478	7539

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Table 4
Single Exon Probes Expressed

	Т	\neg	\neg	14	_	\neg	_	-	7	-т		_,			* ***	4	. 4 .			ludi.		New Hart Hart III III III III III III III III III I
Top Hit Descriptor	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5	ob34f09.x5 NCI_CGAP_Kid5 Homo sepiens cDNA done IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE INMDAI RECEPTOR SUBLINIT FPSII ON 1 PRECI INSCREED.	ob34f09.x5 NCI_CGAP_Kid5 Homo sapiens cDNA done INGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE INMDA! RECEPTOR SUBUNIT FIRM ON 1 PIPEC INSCAPE.	Homo saplens myelod/lymphold or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (Mri 174), mRNA	Homo sepiens eukanotic translation initiation fontor 4A in-6-	AV742248 CB Homo septems CDNA clone CBERCC12 2	Homo sepiens small inducible contribute authamily 4 (Cr. Cr.) mombar 45 (COXXXXII)	Homo sapiens small inducible cydyking subfamily A (C.C.C.) momber 15 (SCCV 12) mkNA	1012056t Testis 1 Homo saciens chiNA chare bronze	AV760590 MDS Homo sapiens cDNA clone MDSCRRn2 51	295e07.s1 Soures_felta_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to contains THR tabetitive element:	nw21g02.s1 NCI_CGAP_GCB0 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR t3	H. seniens mRNA for lamining alphada chain	Homo seplens hypothetical profets FI 19858 similar to N man 4	Home caniane hundhalical and in 1905.	Ummo continue in the continue of the continue	norm suprems hypometical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FL 113556) mRNA	2559a06.11 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMA/GE:326578 5' similar to contains Alu repetitive element	QV3-BT0537-271299-049-d07 BT0537 Homo saniens cDNA	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds	1248h04.yi NCI_CGAP_BRn52 Homo sepiens cDNA done IMAGE:2291671 5' similer to SW:PGBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR;
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	Į	NT	1	' <u> </u>	Į.	EST HUMAN	EST_HUMAN	EST HUMAN	EST HIMAN	L	LN	 	1		NT	EST HUMAN	EST HUMAN	T.	EST_HUMAN
Top Hit Acession No.	AV682474.1	AI732851.1	Al732851.1	11419159	4503528	12	4759071	4759071	T18862.1	AV760590.1	AA777621.1			11968028	11968028	11068008	07000811	11968028	Ξ		17.1	6.0E-52 BE048172.1
Most Similar (Top) Hit BLAST E Value	2.0E-51	2.0E-51	2.0E-51	2.0E-51	1.0E-51		1.0E-51	1.0E-51	1.0E-51	1.0E-51	9.0E-52	8.0E-52	8.0E-52	8.0E-52	8.0E-52	8.0F-52		8.0E-52	7.0E-52	8.0E-52	6.0E-52	6.0E-52
Expression	1.71	8.63	8.63	1.33	4.4	22.7	98.0	0.96	3.12	3.57	3.28	7.31	1.33	2.05	2.05	6.44		6.44	1.48	0.86	2.25	223
ORF SEQ ID NO:	28054	25084	25085	25240	19905			23990	25036			19939	21249	21397	21398	21397		21398	27278		21436	28678
Exon SEQ ID NO:		15259	15259	19227	10090	11383	14206	14206	15231	19771	19086	10120	11386	11537	11537	11537		11537	17088	11082	11570	18412
Probe SEQ ID NO:	7962	8640	8640	8996	109	1478	4309	4309	5310	888	9454	146	1481	1633	1633	3913		3913	7211	1170	1668	8540
	Exon ORF SEQ Expression (Top) Hit Top Hit Acession Signal BLASTE No. Source	Exon ORF SEQ Expression (Top) Hit Top Hit Acession Deltabase Deltabase Deltabase Source Source Acession Acession Acession Acession Acession Acession Deltabase Acession A	Exon SEQ ID NO: ORF SEQ Signal Expression (Top) Hit BLASTE (Top) Hit No. Top Hit Acession No. Top Hit Source 17812 28054 1.71 2.0E-51 AV682474.1 EST_HUMAN 15259 25084 8.63 2.0E-51 AI732851.1 EST_HUMAN	Exon SEQ ID NO: ORF SEQ Signal Expression Flats (Top) Hit Flats Top Hit Top Hit No. Top Hit Database No. Top Hit Source Source 17812 28054 1.77 2.0E-51 AV682474.1 EST_HUMAN 15259 25084 8.63 2.0E-51 AI732851.1 EST_HUMAN 15259 25085 8.63 2.0E-51 AI732851.1 EST_HUMAN	Exon SEQ ID NO: ORF SEQ Signal Expression Figure (Top) Hit PLASTE No: (Top) Hit No. Top Hit Database No. Top Hit Source Source 17812 28054 1.77 2.0E-51 AV682474.1 EST_HUMAN 15259 25085 8.63 2.0E-51 AI732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 AI732851.1 EST_HUMAN	Exon SEQ ID NO: ORF SEQ Signal Expression PLAST E Value (Top) Hit No. Top Hit Source 17812 28064 1.77 2.0E-51 AV682474.1 EST_HUMAN 15259 25084 8.63 2.0E-51 AI732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 AI732851.1 EST_HUMAN 19050 19905 4.4 1.0E-51 A1732851.1 EST_HUMAN	Exon SEQ ID NO: ORF SEQ Signal Expression PLAST E Value (Top Hit Top Hit No. Top Hit Source 17812 28054 1.77 2.0E-51 AV682474.1 EST_HUMAN 15259 25084 8.63 2.0E-51 AI732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 AI732851.1 EST_HUMAN 10050 19905 4.4 1.0E-51 AV742248.1 EST_HUMAN 11383 22.7 1.0E-51 AF03528 NT EST_HUMAN	Exon SEQ ID NO: ORF SEQ Signal Expression Plan (Top) Hit Plan Top Hit Acession No. Top Hit Acession Source No. Top Hit Acession Source Source 17812 28054 1.77 2.0E-51 AV682474.1 EST_HUMAN 15259 25085 8.63 2.0E-51 A1732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 A1732851.1 EST_HUMAN 10050 19905 4.4 1.0E-51 A742248.1 EST_HUMAN 11383 22.7 1.0E-51 A759071 NT 14206 23989 0.96 1.0E-51 A759071 NT	Exon SEQ ID ID NO: Expression signal ID NO: Expression Signal ID NO: Top Hit Acession No: Top	Exon SEQ ID NO: CRF SEQ Signal Signal Signal ID NO: Most Similar Signal	Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hit BLAST E Value Top Hit Acession No. Top Hit Acession Source Top Hit Acession No. Top Hit Acession Source 17812 28064 1.71 2.0E-51 AV682474.1 EST_HUMAN 15259 25084 8.63 2.0E-51 A1732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 A1732851.1 EST_HUMAN 10090 19905 4.4 1.0E-51 A742248.1 EST_HUMAN 14206 23989 0.96 1.0E-51 A759071 NT 14206 23990 0.96 1.0E-51 A759071 NT 14206 23990 0.96 1.0E-51 A759071 RT 14201 25036 3.12 1.0E-51 A759071 EST_HUMAN 15231 25036 1.0E-51 A759071 RT	Exon NO: ORF SEQ Signal Expression Signal (Top) Hit BLAST E Value Top Hit Acession No. Top Hit Acession Source Top Hit Acession No. Top Hit Acession Source 17812 28064 1.71 2.0E-51 AV682474.1 EST_HUMAN 15259 25085 8.63 2.0E-51 A1732851.1 EST_HUMAN 19227 25240 1.33 2.0E-51 A1732851.1 EST_HUMAN 10090 19905 4.4 1.0E-51 A472248.1 EST_HUMAN 14206 23989 0.96 1.0E-51 A759071 NT 14206 23990 0.96 1.0E-51 A759071 NT 14206 23990 0.96 1.0E-51 A759071 NT 19771 3.57 1.0E-51 A759071 EST_HUMAN 19086 1.0E-51 A759071 EST_HUMAN 19771 25036 3.12 1.0E-51 A759071 EST_HUMAN 19086 1.0E-51 A759071 EST_HUMAN A759071 EST_HUMAN	Exon Signal Most Similar Signal (Top) Hit Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. No.	Exon Signal Most Similar Signal (Top) Hit Top Hit Acession No. Signal (Top) Hit Top Hit Acession No. Signal No. Signal Top Hit Acession No. Signal	Exon NO: 10 NO: 10 NO: 10 NO: 10 NO: 17812 Expression Signal 10 NO: 10 NO: 10 NO: 10 NO: 10 NO: 10 NO: 10 NO: 15259 (Top) Hit 2.0E-51 AV682474.1 Top Hit Acession No. 10 NO: 10 NO: 11 NO: 12 NO: 12 NO: 12 NO: 12 NO: 12 NO: 14 NO: 16 NO: 17 NO: 18 NO:	Excm Signal Rose Similar Signal (Top) Hit Top Hit Acession Signal (Top) Hit Top Hit Acession Signal Top Hit Acession Patabase Source Source 17812 28054 1.71 2.0E-51 AV682474.1 EST HUMAN 15259 25085 8.63 2.0E-51 Al732851.1 EST HUMAN 16259 25085 8.63 2.0E-51 Al732851.1 EST HUMAN 16259 25085 4.4 1.0E-51 Al732851.1 EST HUMAN 14206 23989 0.86 1.0E-51 AV72248.1 EST HUMAN 14206 23989 0.86 1.0E-51 AV760590.1 EST HUMAN 19771 3.57 1.0E-51 AV760590.1 EST HUMAN 19086 3.28 9.0E-52 AA777621.1 EST HUMAN 11386 2.1249 1.33 8.0E-52 AA777621.1 EST HUMAN 11587 2.1349 1.33 8.0E-52 AA777621.1 EST HUMAN 11587 2.1368 2.05 8.0E-52 AA777621.1 EST HUMAN	Exam ORF SEQ Expression Signal (Top) Hit Acession Published Top	Exam NO: ID NO: ID NO: ID NO: ID NO: ID NO: ISIGNAL ID NO: ID N	Excm NO: 17812 ORF SEQ 28064 Expression 17812 Most Similar 28064 (Top) Hit 17812 Top Hit Acession Value 16259 Top Hit 28064 Top Hit 17812 Top Hit 206-51 Top Hit No. Source Source 17812 Top Hit 28064 Top Hit 17812 Top Hit 28067 Top Hit 28067 Top Hit 17812 Top Hit 28067 Top Hit 28077 Top Hit 28077	Exon NO: 17812 ORF SEQ 25084 Expression Signal PLASTE PLA	Exon NO: 17812 ORF SEQ 25084 Expression Signal PLASTE PLASTE PLASTE NO: 17812 Most Similar Pub. Signal PLASTE Plaste	Exon NO: 17812 ORF SEQ 25084 Expression Signal (Top) Hit PLASTE Value 16259 Top Hit Accession 25084 Top Hit Accession 17.7 Top Hit Accession 18.45 Top Hit Accession 18.45

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Top Hit Descriptor Source	H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA18H7	Homo sapiens SH3-containing protein SH3GLB1 mRNA, complete cds	Homo sapiens nucleoporin 155kD (NUP155) mRNA	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	601440687F1 NIH MGC 72 Homo saplens cDNA clone IMAGE:3915836 51	Hómo sapiens hydroxysterald (17-beta) dehydrogenase 4 (HSD17B4), mRNA	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo sapiens DNA for Human P2XM, complete cds	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA	Human endogencus retroviral DNA (4-1), complete retroviral semment	Human endogenous retroviral DNA (4-1), complete retroviral segment	bb68b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb:X16493 M.musculus mRNA for Zof-1 zinc finger protein fMol ISF1.	602084710E1 NIH MGC 83 Horn canisas chiNA clara MACE 4248804 Et	Novel human gene magging to chromosome 20. similar to membrane transmeters	IL3-C70214-231299-053-E12 C70214 Homo sapiens cDNA	Homo sapiens interleukin 21 receptor (IL21R), mRNA	Macaca mulatta beta-tubulin mRNA, complete cds	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFSS) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA	w/49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406160 3' similar to contains THR.b2 THR repetitive element;	wj49c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR remetitive element :	AV745377 DOB Home content of the DOB A IFAC EL	2d49q12.r1 Soares fetal heart NbHH19W Homo saniens cDNA class IMAGE:244200 5:	Homo sapiens LIM domain kinase 2 (LIMK2). mRNA	xn72e07.xt NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element,contains element LTR2 repetitive element	wf87d05xf Scares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2360649 3' similar to TR:Q16859 Q16859 CARBOXYLESTERASE :	zu75h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
Top Hit Database Source	NT				HUMAN			FN FN		Į,	Ę	EST HUMAN	Т	Τ	EST HUMAN						V EST_HUMAN	NAMINANI	Т	T		EST_HUMAN n	EST_HUMAN C	EST_HUMAN z
Top Hit Acession No.	Z78898.1	AF25731	4758843 NT	4507500 NT	BE622032.1	11417035 NT	11418177 NT	4.0E-52 AB002059.1	11437042 NT	M10976.1	M10976.1	BE207675.1	BF677892.1	2.0E-52 AL137188.3	2.0E-52 AW848041.1	11141868 NT	2.0E-52 AF147880.1	4758789 NT	5730038 NT	5730038 NT	2.0E-52 AI831462.1	2.0E-52 AI831462 1	AV715377 1	N70260.1	11417990 NT	2.0E-52 AW236297.1	2.0E-52 AI808985.1	1.0E-52 AA634445.1
Most Similar (Top) Hit BLAST E Value	5.0E-52		4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	4.0E-52	3.0E-52	2.0E-52 M10976.	2.0E-52 M10976.	2.0E-52 BE20767	2.0E-52	2.0E-52	2.0E-62	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52	2.0E-52 AV71537	2.0E-52 W70260.	2.0E-52	2.0E-52	2.0E-52	1.0E-52
Expression Signal	2.07	0.93	8.58	0.82	1.24	7.25	4.25	5.09	9.98	1.39	1.39	1.75	20.53	2.74	2.74	1.49	8.39	1.98	4.53	4.53	5.33	533	3.09	2.08	3.22	8.86	4.28	1.37
ORF SEQ ID NO:				23554		27035				20299	20300	22226		24557		25860				27919	28671	28672	28689			24894		20276
Exon SEQ ID NO:			_]				18992	19293	13908	10491	10491	12327	12569	14782	15416	15747	16905	17267		,17675	18408	18408	18419	18548	18701	19755	19112	10464
Probe SEQ ID NO:	4340	1639	1748	3820	9899	6965	9291	9778	4002	220	550	2450	2706	4902	5497	5841	7028	. 7458	7825	7825	8536	8536	8547	8659	8891	9101	9496	522

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Single Exon Probes Expressed in Heart	Source Top Hit Descriptor	026 NT Homo sapiens glutamate-anmonia ligase (glutamine synthase) (GLUL) mRNA	4502238 NT Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA	pol=reverse transcriptase homolog {retroviral element} [human, endogenous retroviral element RTVL-Hp1, Genomic, 660 nt]	NT Human P-glycoprotein (MDR1) gene, exon 4			NT Homo sapiens chromosome 21 segment HS21C027	NT Homo sapiens chromosome 21 segment HS21C002	NT Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds					EST_HUMAN 601904771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5	#44f07.xt NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2099077 3' similar to contains THR.t1		T HUMAN		NT Homo sapiens chromosome 21 segment HS210085		EST_HUMAN 601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMACE:4053977 5	EST_HUMAN 601810969F1 NIH_MGC_48 Homo saplens cDNA clone IMAGE:4053977 5	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	T CHARAS	EST HIMMAN III 21 IMMORT 240300 DAS IMMORT HOME CONTINUED FOR CONTINUED IMAGE:2558796 3'	T	T			EST HUMAN EST77525 Pancreas tumor III Homo sapiens cDNA 6' end	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein NT (L44L) and FTP3 (FTP3) genes, complete cds
ਨ 	Top Hit Acession No.	4504026 NT	450223	S61070.1	1.0E-52 M29426.1	U38964.1	X07292.1	1.0E-52 AL163227.2	1.0E-52 AL163202.2	U48296.1	11426321 NT	4506064 NT	AF001446.1	9.0E-53 7661713 NT	BF238465.1	7.0E-53 A 421782.1	4758543 NT		AL163285.2	AL163285.2	7705414 NT	BF128701.1	BF128701.1	3 OE 63 A BOSESOS 4	3.0E-33 AD020030.1	3.0E-53 AWARGEGS 4	3 0E-53 BE060344 4	572043 4		5901953 N	4A366556.1	U78027.1
	Most Similar (Top) Hit BLAST E Value	1.0E-52	1.0E-52	1.0E-52 S61070	1.0E-52	1.0E-52 U38964	1.0E-52 X07292	1.0E-52	1.0E-52	1.0E-52 U48296.	1.0E-52	9.0E-53	9.0E-53	9.0E-53	7.0E-53 BF2384	7.0E-53	5.0E-53	5.0E-53 AW813	4.0E-53 AL1632	4.0E-53 AL1632	4.0E-53	4.0E-53 BF12870	4.0E-53 BF1287	200 83	3.05	3.0E-53	3 OF 53	3 0E-53 S72043	20.00	3.05-53	2.0E-53 AA3665	2.0E-53 U78027
	Expression Signal	8.25	1.2	1.41	3.59	2.11	3.19	1.64	1.61	1.84	2.04	1.03	1.01	0.93	2.06	2.98	2.2	1.72	1.92	1.92	1.09	3.33	3.33	C C	4.00	1 18	0.85	88 0	0000	g.59	4.25	2.98
	ORF SEQ ID NO:	21111		22741	24967		26417			28283		23420	23975	24611			23690	-	19834	19835	24387	28685	28686	78200	23374	24167	24408	26905	ı			22060
	Exon SEQ ID NO:		12364	12949	15192	15757	16256			18035	18094	13635	14191	14841	19018	19632	13915	19048	10031	10031	14601	18417	18417	12403	13584	14380	14715	16712	17.7	21/1	10394	12163
	Probe SEQ ID NO:	1349	2489	3021	5270	5851	6394	6932	8023	8147	8210	3723	4293	4966	9338	9752	4009	9389	43	43	4715	8545	8545	2625	3870	4486	4833	833	7730	85	450	2279

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Table 4
Single Exon Probes Expressed in Heart

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Тор Hit Descriptor	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E (ATP6F) mRNA	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
 | Homo saplens Xa assudos utasomal region: security clone invAGE: 2822665 5 | Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, | CMA-NN1020-180800-543 -02 NN1020 I | H sanjans mBNA for knDNDcccc and the sanjans country of the sanjans mBNA for knDNDcccc and the sanjans mBNA for knDNDccc and the sanjans mBNA f

 | Homo sanjene Total Immhama immenjen | Homo sapiens T-cell (Amphema lavasion and meastasis 1 (1) AM1) mRNA | Homo saplens IO motif containing GTPace activities and increased (1.14Mr) mKNA | 601272863F1 NIH MGC 20 Homo Seniens PDNA Plans IMACE 224 4224 F1 | Homo sapiens insulin-like growth factor 2 recentor (10528) men's
 | Homo sapiens ubiquitin specific protease 13 (isonentirdase T-3) (1/SD13) DNA | Homo expiens ubjoutin specific professe 13 (concentidate 1.2) (100.4)
 | Homo sapiens ubiquitin specific protease 13 (isonantidase T 2) (19513) mKNA | Homo sapiens ubjoutiffn specific professe 13 (feomeridaes 12) (OST 12) | Homo sapiens ATP-binding cassette, sub-family A (ABC1) member 8 (ABC4) Bara
 | a79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.t3 MER30 | Homo sapiens mRNA for monocute chemotopic profess 2 | w68d12.s1 Scares_placenta_8tc9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:257399 3' |
| Top Hit
Database
Source | N | Ę | LV | F | FA
FA | ۲ | L
TN | NT | EST HUMAN | EST HUMAN | EST HUMAN
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 | L | LZ. | FZ | l-
 | 1. | NT | IN
 | NT | N
 | N | FST HIMAN | TA | EST HUMAN |
| Top Hit Acession
No. | 4502316 | 4757915 | 4757915 | AF083822.1 | M61873.1 | 4506962 | AL163281.2 | AL163281.2 | BF334740.1 | BF334740.1 | AW245676.1
 | AJ271736.1 | 4B026898 4 | 3F3642011 | X79536.1

 | 4507500 | 4507500 | 4506786 | 85.1
 | | 4507848 | 4507848
 | 4507848 | 4507848
 | 6005700 | | | |
| Most Similar
(Top) Hit
BLAST E
Value | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53 | 2.0E-53
 | 1.0E-53 | 1.0E-53 | 1.0E-53 | 1.0E-53

 | 9.0E-54 | 9.0E-54 | 9.0E-54 | 8.0E-54
 | 8.0E-54 | 8.0E-54 | 8.0E-64
 | 8.0E-54 | 8.0E-54
 | 8.0E-54 | 7.0E-54 | 7.0E-54 | 7.0E-54 N27177. |
| Expression
Signal | 10.54 | 6.93 | 6.93 | 1.18 | 2.06 | 1.07 | 1.12 | 1.12 | 3.11 | 3.11 | 5.6
 | 6.0 | + | 1.42 | 5.14

 | 0.8 | 0.8 | 4.71 | 3.09
 | 1.33 | 1.25 | 1.25
 | 1.08 | 1.08
 | 20.81 | 1.26 | 1.54 | 4.61 |
| ORF SEQ
ID NO: | | 22446 | 22447 | 22833 | 23653 | 24068 | 24735 | 24736 | 25056 | 25057 |
 | 21200 | 23083 | 26056 | 27322

 | 24787 | 24788 | 24939 | 19988
 | 21568 | 24307 | 24308
 | 24307 | 24308
 | 25612 | 20186 | 21563 | 21945 |
| Exan
SEQ ID
NO: | | 12559 | 12559 | 13131 | 13877 | 14286 | 14961 | 14961 | 15251 | 15251 | 17280
 | 11334 | 13283 | 15925 | 17129

 | 15019 | 15019 | 19439 | 10172
 | 11692 | 14517 | 14517
 | 14517 | 14517
 | 15529 | 10363 | 11687 | 12045 |
| Probe
SEQ ID
NO: | 2490 | 2694 | 2694 | 3207 | 3970 | 4390 | 5091 | 5091 | 5331 | 5331 | 7413
 | 1429 | 3364 | 6021 | 7252

 | . 5152 | 5152 | 5244 | 200
 | <u>4</u> | 4629 | 4629
 | 2030 | 2030
 | 5614 | 379 | 1789 | 2158 |
| | Exon ORF SEQ Expression (Top) Hit Acession Database No: Signal BLASTE No. Source | Exon ORF SEQ Expression (Top) Hit Top Hit Acession Diabase No: Signal Value 12365 10.54 2.0E-53 4502316 NT | Exon
SEQ ID
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No. Top Hit
Source
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The Later to the coord in Figure 1	Top Hit Descriptor	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC63182) mRNA	db67g03.xt Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1705204.3' similar to contains OFR.tt OFR repetitive element:	Homo sapiens DNA for MICB, exon 4, 5 and partial cds	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA	Homo sapiens chloride channel 6 (CLCN6) mRNA	AV754746 TP Homo saplens cDNA clone TPGAAC10 5'	H.sapiens shc pseudogene, p66 Isoform	H.saplens sho pseudogene, p66 isoform	RC3-ST0197-151099-011-f08 ST0197 Homo seniens cDNA	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPF2)	Tupaia belangeri beta-actin mRNA, partial cds	EST177696 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate	denydrogenase	Human mRNA for KIAA0077 gene, partial cds	Human mRNA for KiAA0077 gene, partial cds	wd26d11x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329269 3' similar to TR:O02711 = 002711 PRO-POL-DUTPASE POLYPROTEIN :	EST185371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end	DKFZp434E0731_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434E0731 5	JL-BT189-190399-007 BT189 Homo sepiens cDNA	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA	a92c08.s1 Soares_parathyrcid_tumor_NbHPA Homo sapiens cDNA clone IMAGE-1388270.3	al92c08.s1 Soares parathyroid fumor NbHPA Homo saniens cDNA clone IMA CE-1388270 2	602019408F1 NCI CGAP Brn67 Homo serpiens cDNA clone IMAGE-4155171 F	270f12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315	ECTARRESO MACE FORMER MACE IN TRADELY INC.	RC1-BT0313-731189-011-h09 BT0313 Home stables GDIVA	Hono sabiens killer cell lectin-like regenter subfamily 6 member 4 (ki DG4) Davia	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
מון ווויין מון	Top Hit Database Source	占	EST HUMAN	N FN	NT	F	Z	¥	EST_HUMAN	Ā	LN L	EST HUMAN	SWISSPROT	NT	1444111	ESI_HUMAN	LN T	NT	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	NT	EST_HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	EST HIMAN	EST HIMAN	NT	N
5	Top Hit Acession No.	11417222 NT	7.0E-54 A1160189.1	AB003618.1	4505052 NT	4505052 NT	8922148 NT	4502872 NT	6.0E-54 AV754746.1	Y09846.1	Y09846.1	4W813567.1	51523	4.0E-54 AF110103.1		4.0E-54 AA306/64.1		J38521.1	4.0E-54 Al935086.1	4A313487.1	3.0E-54 AL110383.1	N908757.1	4502434 NT	3.0E-54 AA844061.1	VA844061.1	3F345600.1	VA393362.1	3 0F-54 AW954559 1	3.0E-54 AW 748965.1	5031900 NT	4507164 NT
	Most Similar (Top) Hit BLAST E Value	7.0E-54	7.0E-54	6.0E-54 AB00361	6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54	6.0E-54 Y09846.1	6.0E-54 Y09846.1	6.0E-54 AW81356	5.0E-54 P51523	4.0E-54	7 05 54	4.05-04	4.0E-54	4.0E-54 D38521.1	4.0E-54	3.0E-54 AA31348	3.0E-54	3.0E-54 AI908757	3.0E-54	3.0E-54	3.0E-54	3.0E-54 BF345600	3.0E-54 AA393362	3 0F-54 /	3.0E-54/	20E-54	2.0E-54
	Expression Signal	2.23	6.24	1.54	0.87	0.87	0.84	2.4	1.24	1.71	1.3	1.77	2.25	106.86	70 77	1	3.24	3.24	1.17	5.11	0.92	0.88	1.48	1.68	1.68	4.17	3.34	2.86	_	6.29	1.94
	ORF SEQ ID NO:	27925		19802	21605	21606	22968	23612	24040			28143	21893		20712	20112	21536	21537		19888	22287		25590	26394	26395	28565	28847	26353		20374	21105
	Exon SEQ ID NO:	17681	18478	10009	11730			13832	14255	14658	14658	17899	11993	10147	10867	200	11663	11683	13083	10072	12396	12454	15512	16235	16235	18309	18563	18932	19714	10563	11248
	Probe SEQ ID NO:	7831	8611	22	1833	1833	3246	3923	4359	4774	4930	8750	2104	176	040		1/84	178	3168	8	2522	2583	5598	6373	6373	8435	8675	9199	9242	626	1342

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Table 4
Single Exon Probes Expressed in Heart

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migo ryon topos rypiessed III neall	Top Hit Descriptor	nt78a08.s1 NCI_CGAP_Pr3 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1 repetitive element;	aug2g03.yl Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to SW:CUL1 HUMAN 013846 CHT IN HOMAN OG 4	Homo sapiens chremosome 21 segment HS210010	wy60b12x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sepiens cDNA clone IMAGE:2552927 3' similar to TR:062084 Q62084 PHOSPHOLIPASE C NEIGHDORING.	nj45g09.s1 NCI_CGAP_Pr9 Homo sapiens cDNA clone IMAGE:995488 similar to gb:X53777 60S RIBOSOMAI PROTEIN I 23 AHIMAAN.	Homo sapiens chaperonin containing T-complex enhinit & (CCTE) BNA	Homo sapiens chromosome 21 segment HS21Con4	Homo sapiens nenfidylarainine delminase trae III (1 OCE 1202)	Homo sapiens dihydronyridine recenture alphe 3 cultural (CACALAGEA)	omo sapiens small inducible cydrikne cukfamily A (C. C.)	1243c11.v1 NOI CGAP Bm52 Hrmp sanians CNN done INACE: 2243c4 E	Homo saplens KIAA0100 dene product (KIAA0100) mRNA	Homo sepiens mRNA for KIAA1501 motion martial add	Homo sapiens mRNA for KIAA1591 protein partial cds	Homo sapiens neurofibronin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1),	OMO caniano mDNA for hair a	Homo saplens lante khase 2 /a another trace 1/1 / 1/1/2/	Homo sapiens pescadillo (zehrafisk) homolog 1 combining BDCT 4	Homo sabiens period (Drosophile) homology (PEPS) webly	601899230F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE-4128535 F	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zrv6C880 similar to 5'-end region of Human	Homo sanjens REB30 dana for DINO finone material	Homo saniens REB30 gape for BIND fines participated	tho2a02x1 NIH MGC 17 Home saniens CDNA clama IMA CE coscons et	Y28604.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to	ak28a11 st Spares fastis NHT Homo continue CNN classifications and continue of the continue of the continue continue of the continue conti	For I to I control the Indian Sacing Sacing Clina Blaza Internation of
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S I	Top Hit Acession No.	138.1	75.1	0.2	2.0E-54 AW057524.1	2.0E-54 AA532925.1	2642	AL163201.2	7706446	\-	759069	-	1426657	1.1	1.1	T14796544	5 1	1429127	7657454 NT	8567387 NT	1.0E-54 BF315418.1	1.0E-54 ALIO77341 1			4.1			
	Most Similar (Top) Hit BLAST E Value	2.0E-54 AA6550	2.0E-54 AW1631	2.0E-54 AL16321	2.0E-54	2.0E-54 /	2.0E-54	2.0E-54 AL16320	2.0E-54	2.0E-54 /	2.0E-54	2.0E-54	2.0E-54	2.0E-54 AB04681	2.0E-54 AB04681	2 OE-54	2.0E-54 AB00102	2.0E-54	2.0E-54	2.0E-54	1.0E-54 B	1.0E-54 A	8.0E-55 Y07829.2	8.0E-55 Y07829.2	8.0E-55 AW 40971	7.0E-55 R09346-1	7.0E-55 AA88958	
	Expression Signal	1.6	1.3	1.82	1.65	4.06	2.03	1.13	1.45	0.84	3.75	1.34	3.59	18.19	18.19	8.14	3.62	1.26	2.57	1.46	1.07	2.26	14.56	2.32	2.76	1.19	1,28	
	ORF SEQ ID NO: '	21290	22261	22321	22587				24450	24790	25116	25417	25503	25564	25565	26243	27617	27821		25216						20826	27373	
	Exon SEQ ID NO:	11434	12367	12428	12793	13418	14010	14240	14664	15023	15283	15380	15439	15488	15488	16093	17403	17599	18770	19244	14259	19345	11201	11204	18402	10981	17173	
	Probe SEQ ID NO:	1529	2493	2556	2865	3501	4110	4343	4780	5156	5363	5440	5521	6673	5573	6227	7552	7749	8963	9693	4363	9852	1294	1297	8530	1065	7297	

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eart	Top Hit Descriptor	Jtf Homo saniens cDNA clone IMAGE:2240246 2	Jr Homo sapiens cDNA clone IMAGE-2240240 3'	thrain 1NIB Homo saniene china chana IMAGE: Forda E	KIAA1501 protein, partial cols	295b09.s1 Soares fetal liver spleen 1NFLS S1 Homo saniens c7NA clone IMAGE-462617 of	295b09.s1 Soares fetal liver spleen 1NFLS S1 Homo saniens China IMACE: 462617 31	se E (chondrodysolasia punctata 1) (ARSF) mRNA	se E (chondrodysplasia punctata 1) (ARSF) mRNA	Homo saplens protein tyrosine phosphatase, recenting the alpha pulmentide (PTPDA) mDNA	KIAA0611 protein, partial cds	KIAA0611 protein, partial cds	an Filke 2 (NF1 2) mRNA	(zebrafish) homolog 1 containing BRCT domain (PES4) mBNA	Tuences, MAGE Homo sepiens cDNA	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBMY1A1) mRNA	osteoblast protein (GS3786), mRNA	osteoblast protein (GS3786), mRNA	7j52b10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA clone IMAGE:3390043 3' similar to	e element;	e (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	e (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	arol kinase, gamma (90kD) (DGKG) mRNA	arol kinase, gamma (90kD) (DGKG) mRNA	onjugating enzyme E2 variant 1 (UBE2V1) mRNA	autosomal region; segment 1/2	ne 21 segment HS21C100	ne 21 segment HS21C010	randomly brimed sublibrary Homo saniens conta	17 Homo sapiens cDNA clone IMAGE-4120238 K	1-008 HT0603 Homo sepiens cDNA	ne 21 seament HS21C084	virus pHE.1 (ERV9)	viral DNA (4-1), complete retroviral segment	nding profein 1 (STXRP1) mRNA and franciscoding.
Single Exon Probes Expressed in Heart	Top Hit Descriptor	ta29f09.x1 NC CGAP Utf Homo saniens cDNA clone IMAGE:22102403	tq29f09.x1 NCI CGAP Ut1 Homo sabiens cDNA clone IMAGE: 7210249.3	wm57q07.r1 Soares Infant brain 1NIB Home saniens chNA close IMAGE F2444 F	Homo sapiens mRNA for KIAA1501 protein, partial cds	9.s1 Soares fetal liver spleen 1NFLS S1 Homo saniens CDNA	9.s1 Soares fetal liver splean 1NFLS S1 Homo sapiens 51NA	Homo sapiens arysulfatase E (chondrodysplasia punctata 1) (ARSE) mRNA	Homo sapiens anysulfatase E (chondrodysplasia punctata 1) (ARSE) mRNA	saplens protein tyrosine phosphatase, recentric type, alpha polymen	Homo sapiens mRNA for KIAA0611 protein, partial cds	Homo sapiens mRNA for KIAA0611 protein, partial cds	Homo sapiens nel (chicken)-like 2 (NFI I 2) mRNA	Homo sapiens pescadillo (zebrafish) homolog 1 containing BRCT domain (PES1) #BNA	EST370064 MAGE resequences. MAGE Homo sepiens CDNA	sapiens RNA binding motif protein, Y chromosome, family 1 memi	Homo sapiens predicted osteoblast protein (GS3786), mRNA	Homo sapiens predicted osteoblast protein (GS3786), mRNA	0.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo saplens cDNA c	contains L1.t3 L1 repetitive element;	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	Homo saplens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA	Homo sapiens Xq pseudoautosomal region; segment 1/2	Homo sapiens chromosome 21 segment HS21C100	Homo saplens chromosome 21 segment HS21C010	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cONA	601886575F2 NIH MGC 17 Homo sapiens cDNA clone MAGE-4120338 F	PM1-HT0603-090300-001-a08 HT0603 Homo sepiens cDNA	Homo sapiens chromosome 21 segment HS21C084	Human endogenous retrovirus pHE.1 (ERV9)	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo sablens syntaxin-binding profeta 1 (STYRD4) mBNA and translated
Exon Probes E	Top Hit Database Source	EST HUMAN ta29f	Т	Г		EST HUMAN zj95b									T HUMAN					T HUMAN									EST HUMAN 43c5	1	EST HUMAN PM1-	T			
Single	Top Hit Acession No.	7.0E-55 AI561056.1 E	7.0E-55 AI561056.1 ES		4.1	1.1	1.1	4502240	4502240 NT	4506302 NT	AB014511.1 NT	AB014511.1 NT	5453765 NT	11417972 NT	4.0E-55 AW957994.1 EST	4826973 NT	7661713 NT	7661713 NT		-	4506180 NT	4506180 NT	4503314 NT	4503314 NT	7794	1	L163300.2 NT	2			3.0E-55 BE178519.1 ES		(57147.1 NT		150729R
	Most Similar (Top) Hit BLAST E Value	7.0E-55	7.0E-55	7.0E-55	6.0E-55 AB04093	5.0E-55 AA70497	5.0E-55 AA70497	6.0E-55	5.0E-55	5.0E-55	5.0E-55 AB01451	5.0E-55 AB01451	5.0E-55	5.0E-55	4.0E-55 /	4.0E-55	4.0E-55	4.0E-55	1	4.0E-55 BF06141	4.05-55	4.0E-55	4.0E-55	4.0E-55	4.0E-55	4.0E-55	4.0E-55 AL163300	4.0E-55 AL163210	4.0E-55 W28189.1	4.0E-55 BF303941	3.0E-55	3.0E-55 AL163284	2.0E-55 X57147.1	2.0E-55 M10976.1	2.0E-55
	Expression Signal	12.75	12.75	4.3	1.98	1.12	1.12	1.82	1.82	2.06	1.86	1.86	1.19	2.13	1.36	33.95	1.89	1.89		1.26	23.	1.53	7.73	7.73	125	1.04	1.38	6.44	4.46	2.38	2.76	1.65	2.3	0.89	3.08
	ORF SEQ ID NO:	62982			28908	21500	21501		25970	27296	27851	27852	27965		19843	20409	21193	21194		20120	21/63	21764	21824	21825	22046		22964						20150		20383
	Exen SEQ ID NO:	18413		19648	18617		11633	15846	15846	17106	17620	17620	17719	18985	12658	10591	11328	11328	27,700	11402	7/011	11872	11930	11930	12146	12419	13165	16738	18429	18933	18894	19356	10327	10480	10570
	Probe SEQ ID NO:	8541	8541	9823	8803	1732	1732	5941	5941	7229	7770	0777	7869	9283	49	656	1422	1422	7,00	1498	200	19/61	2039	503	77,07	2545	3242	6857	8559	9200	9138	9866	373	539	633

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Table 4
Single Exon Probes Expressed in Heart

1					_	_		_		_							_													· · ·		
	Top Hit Descriptor	Homo saplens ublquitin protein ligase E3A (human papilioma virus E8-associated protein, Angelman syndrome) (UBE3A) mRNA	CM1-HT0876-150800-357-g03 HT0876 Homo sapiens cDNA	am98h05.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR b2 THR receitive element	AU119344 HEMBA1 Homo saniens cDNA clone HEMBA1008583 5	Homo sapiens mannose-6-phosphate receptor (cation denendent) (MADR) mRNA	Oryctofagus cuniculus New Zealand white elongation factor 1 alpha (Dahadiso) mDNA	Homo sapiens mRNA for KIAA0903 profein partial references	601120116F1 NIH MGC 20 Homo sepiens cDNA clone IMAGE-2967027 F7	601120116F1 NIH MGC 20 Hamo seniens cDNA clone IMAGE-20827027 g	Homo sapiens SMA3 (SMA3), mRNA	Homo saplens testis-specific Testis Transcript V 1 (TTV1) mRNA nartial cdo	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)	Homo sapiens mRNA for KIAA0406 protein, partial cds	Homo sapiens mRNA for KIAA0406 protein, partial cds	Homo sapiens CLP mRNA, partial cds	43c5 Human retina cDNA randomly primed sublitivary Homo sapiens - DNA	Homo sapiens chromosome 21 segment HS21C067	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens DSCR5b mRNA, complete cds	Homo sapiens DSCR5b mRNA, complete cds	Homo sapiens hypothetical protein FLJ20126 (FLJ20126), mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Homo sapiens hect domain and RLD 2 (HERC2), mRNA	Homo sapiens chromosome 21 segment HS21C010	Homo saplens chromosome 21 segment HS21C010	Human infant brain unknown product mRNA, complete cols	Homo sapiens DNA-binding protein (LOC56242), mRNA	601237702F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE 3800552 5	yn62g03.r1 Soares adult brain N2b5HB65Y Homo saplens cDNA clone IMAGE:173044 5' similar to contains THR resetitive element:	RC1-CT0252-231099-013-b07 CT0252 Homo sapiens cDNA	
21 1100 216	Top Hit Database Source	Ę	EST_HUMAN	EST HUMAN	EST HUMAN	N	Į.	N F	EST HUMAN		1	F F	M	F	¥	N P	EST HUMAN		Z	N.	N F	NT	TN.	MT	N.	. IN	M	ZZ.	EST HUMAN	EST HUMAN	EST HUMAN	
	Top Hit Acession No.	4507798 NT	2.0E-55 BE719986.1	4,002836.1	2.0E-55 AU119344.1	4505060 NT	J09823.1		1.0E-55 BE277861.1		3174	1.0E-55 AF000990.1		1.0E-55 AB007866.2	1.0E-55 AB007866.2	54057.1	1.6	1.0E-55 AL163267.2		53.1	83.1	8923125	11433046 NT	11433046 NT	10.2	10.2	F.	10567821 NT	74.1		13.1	
	Most Similar (Top) Hit BLAST E Value	2.0E-55	2.0E-55	2.0E-55 Al0028;	2.0E-55	1.0E-55	1.0E-55 U09823	1.0E-55 AB0207	1.0E-55	1.0E-55	1.0E-55	1.0E-55	1.0E-55 X13111	1.0E-55	1.0E-55 /	1.0E-55 L54057.	1.0E-55	1.0E-55 /	1.0E-55 AL.1632	1.0E-55 AB0371	1.0E-55 AB0371	1.0E-55	1.0E-55	1.0E-55	1.0E-55 AL1632	1.0E-55 AL1632	1.0E-55 U50950	1.0E-55	9.0E-56 BE3790	7.0E-56 H19934.	7.0E-56	
	Expression Signal	0.79	2.97	4.3	2.2	1.6	11.9	3.55	0.86	0.86	23	1.03	33.19	4.71	4.71	1.35	1.15	3.47	1.04	0.98	0.98	1.19	5.75	5.75	4.74	4.74	2.58	2.04	1.81	5.18	1.84	
	ORF SEQ ID NO:				28446			20888	21680			22071		22271	22272	22331	23082	23597	23878	24392	24393	24727	25809	25810	28405	28406	28138	28959	26383	22457	26538	
	Exon SEQ ID NO:	12855		17160	18196	10075	10154	11046	11802	11802	12161	12651	12346	12381	12381	12439	13282	13817	14097	14607	14607	14951	15700	15700	18163	18163	17894	18671	16221	12567	16363	
	Probe SEQ ID NO:	2928	4665	7284	8319	91	182	1132	1907	1907	2277	2290	2470	2507	2507	2568	3363	3907	4197	4721	4721	5081	5794	5794	8284	8284	8745	8829	6358	2703	6504	

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Table 4
Single Exon Probes Expressed in Heart

Most Similar Top Hit Acession D NO: Signal BLAST E No. Source			\neg	\neg	_	-	٦-	_	$\overline{}$	$\overline{}$		_	т	_	_	_		_	-7	_	÷	7	- , :							_;=			****
ORF SEQ Expression Signal (Top) Hit Aces PLAST E No. 1D NO: Signal 1.84 7.0E-66 AW361213.1 26539 1.84 7.0E-66 AW361213.1 21434 2.26 5.0E-56 AW361213.1 24902 2.68 6.0E-56 H55099.1 19805 6.15 4.0E-56 AF141349.1 19806 6.15 4.0E-56 AF141349.1 22431 4.11 4.0E-56 AF141349.1 22432 4.11 4.0E-56 AF141349.1 22431 4.11 4.0E-56 AF141349.1 22432 4.11 4.0E-56 AF141349.1 22431 4.11 4.0E-56 AF043528.1 22432 4.11 4.0E-56 AF04336.1 28417 8.75 4.0E-56 AF04336.1 22432 4.11 4.0E-56 AF04336.1 21892 2.7 3.0E-56 AF05506.1 21892 2.7 3.0E-56 AF05506.2	Jes Expressed in Heart	Top Hit Descriptor	RC1-CT0252-231099-013-b07 CT0252 Homo saniens cDNA	RC3-BN0053-170200-011-h01 BN0053 Homo saniens cDNA	43c5 Human retina cDNA randomly primed sublihary Homo saniens CDNA	CHR220038 Chromosome 22 exon Homo sapiens cDNA clone C22 55 51	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens beta-tubulin mRNA, complete cds	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA	Homo sapiens fubulin, beta polypeptide (TUBB) mRNA	Homo sapiens X-linked anhidrolite ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Homo sapiens uncharacterized bone marrow protein BM031 mRNA complete cols	Homo saplens uncharacterized hone marrow protein RAM34 m RNA complete and	Homo sapiens lymphocyte-specific protein 1 (LSP1) rene 1 SP1-7 allala matial sub-	tm65g12.x1 NCI CGAP Bm25 Homo sapiens cDNA clone IMAGE-2183048 31	tm65g12.x1 NCI_CGAP_Brn25 Homo saplens cDNA clone IMAGE-2163046.3'	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA	Homo saplens oncogene TC21 (TC21) mRNA	EST28889 Cerebellum II Homo sapiens cDNA 5' end	EST28889 Cerebellum II Homo sapiens cDNA 5' end	Homo sapiens MHC class 1 region	Homo sapiens chromosome 21 segment HS210068	Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae homolog). iika (SKIV2)) mRNA	Homo sapiens sparc/osteonecith, cwcv and kazal-like domains proteculoral flastican) (CDOCV) and lastican)	Homo sanians snarrinsfarneriin ours and lonal lile a since of the sinc	Homo sanjena krocemal associated member and an indicatory of a state of a sta	Homo sapiens bone morphogenetic protein 5 (RM/PS), mRNA	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA	Homo sapiens mRNA, similar to rat myomegalin, complete cols	Homo sapiens nuclear pore complex Interacting protein (NPIP) mRNA	Homo sapiens nuclear pore complex interacting protein (NPIP) mRNA	Homo sapiens caveolin 3 (CAV3), mRNA	Homo sapiens caveolin 3 (CAV3), mRNA
ORF SEQ Expression Signal Most Similar Paces Top Hit Aces ID NO: Signal Value No. 26539 1.84 7.0E-56 AW361213.1 21434 2.26 5.0E-56 AW361213.1 21434 2.26 5.0E-56 AW361213.1 24902 2.68 6.0E-56 H55099.1 19805 6.15 4.0E-56 AF141349.1 19806 6.15 4.0E-56 AF217508.1 22431 4.11 4.0E-56 AF217508.1 22602 6.15 4.0E-56 AF217508.1 22630 6.15 4.0E-56 AF217508.1 28030 1.23 4.0E-56 AF217508.1 280417 8.75 4.0E-56 AF38086.1 28042 6.29 4.0E-56 AF438086.1 28041 8.75 4.0E-56 AF438086.1 28040 1.58 3.0E-56 AF488066.1 28041 8.75 3.0E-56 AF48806.1 28041	Jie Exon Prog	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	NT	N.	Z	LN	TN	N-	LN	TZ	EST HUMAN	'⊢'	1	N	EST_HUMAN	EST_HUMAN	Z	LN LN	TN	TN	L	L	NT	TN	NAT .	N I	Z	NT	ΤΛ
ORF SEQ Expression Signal		Top Hit Acession No.	AW361213.1	1W9977121	N 28189.1	155099.1	NF141349.1	VF141349.1	4507728	4507728	AF003528.1	VF217508.1	F217508.1	F043349.1			8924029	6912697	A325826.1	A325826.1		3.2	5902085	4759163	4759163	11421124	11418704	11434956	B042556.1	5902013	5902013	11434876 NT	11434876 NT
ORF SEQ Express ID NO: Signs 28639 21434 21434 22431 22431 22431 22431 22431 22431 22431 22805 22805 22805 22805 22805 22805 225467 28269 10 28772 28771 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28772 28774 2785 28772 2877			7.0E-56 /	5.0E-56	5.0E-56 \	5.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56 ₽	4.0E-56	4.0E-56	4.0E-56	4.0E-56	4.0E-56	3.0E-56	3.0E-56	3.0E-56 A	3.0E-56	3.0E-56	3.0E-56 A	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56	3.0E-56 A	3.0E-56	3.0E-56	3.0E-56	3.0E-56
® □ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Expression Signal	1.84	2.26	1.31	2.68	6.15	6.15	4.11	4.11	3.05	6.29	6.29	1.23	8.75	8.75	9.85	2.7	1.58	1.58	1.39	4.05	2.14	1.57	1.57	6.34	5.74	1.52	10.72	3.89	3.89	2.3	2.3
- 다 [8] 왕의 [2] 얼마 그는 그 보고 한 보고 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한 한		ORF SEQ ID NO:				24902	19805	19806	22431	22432	20268	25802	25803	28090	28417	28418	21081	21892	22804	22805		24006	24154	25467	25468	26141	27185	28078	28259	28771	28772	25315	25316
$-\frac{1}{2}$		Exen SEQ ID NO:	16363	11568	17790		10012	10012	12541	12541	10457	15694	15694	17849	18174	18174	11225	11992	13013	13013	13674	14224	14364	15405	15405	16003	16994	17837	18012	18497	18497	18955	18955
Probe SEQ ID NO: NO: 1686 1168		Probe SEQ ID NO:	6504	1686	7940	9375	25	25	2676	2676	2781	5788	5788	7999	8295	8295	1318	2383	3086	3086	3761	4327	4470	5486	5486	6109	7117	7987	8124	8632	8632	9240	9240

Page 241 of 413 Table 4 Single Exon Probes Expressed in Heart

		7	\neg	_	$\overline{}$	$\overline{}$	_	_	-	_	-	т	7	-	_	-,	_		-		<u> </u>		-, :	_	, may	700-	_			··· ;		····		*****
מונים ביינים	Top Hit Descriptor	zq52a08.s1 Stratagene neuroepithelium (#937231) Homo saniens cDNA clone IMA CE 644306 31	RC4-BT0310-110300-016-f10 BT0310 Homo sapiens cDNA	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA	Human cGMP phosphodiesterase alpha subunit (CGPR-A) mRNA complete eds	Human cGMP phosphodiesterase alpha subunit (CGPR-A) mRNA complete de	Homo saplens mRNA for KIAA1414 protein, partial cds	AV703184 ADB Homo saplens cDNA clone ADBCFG10 5	Macaca fascicularis protein tyrosine phosphatase (PRI -1) mRNA complete cds	hg23c11.x1 NCI CGAP GC6 Homo sapiens cDNA cione IMAGE-20161623	hq23c11.x1 NCI CGAP GC6 Homo sabiens cDNA clone MAACE: 2046462 2	QV-BT077-130199-079 BT077 Hama sabiens cDNA	RC2-CT0163-220999-001-F02 CT0163 Homo caniens chNA	QV0-OT0033-070300-152-h03 OT0033 Homo saniens clanA	Homo sapiens EphA4 (EPHA4) mRNA	Homo saplens EphA4 (EPHA4) mRNA	Homo sapiens hypothetical protein F.120371 (F. 120371) mRNA	QV4-ST0234-181199-037-105 ST0234 Homo sepiens cDNA	x05d10x1 NCI_CGAP_Brn53 Horno sapiens cDNA clone IMAGE:2759251 3' sImilar to gb:U05875 INTERFERON-GAMMA RECEPTOR RETA CHAIN PDECY IDSOLO (ULLIAMA).	zv51b12.r1 Soares testis NHT Homo seniens cDNA clime IMACE:777464 5	Homo sapiens EphA4 (EPHA4) mRNA	Homo sapiens EphA4 (EPHA4) mRNA	op67h02.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1581939.31	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA	Homo sapiens mRNA for KIAA0960 protein, partial cds	Homo sapiens mRNA for KIAA0960 protein, partial cds	Homo sapiens mRNA for KIAA0837 protein, partial cds	Homo saplens mRNA for KIAA0837 protein, partial cds	Homo sapiens hypothetical protein FLJ20371 (FLJ20371) mRNA	Homo sapiens monocarbox/date transporter 3 (SI C16A8) mRNA	Homo saplens SH3-domain binding protein 1 (SH3RP1) mRNA	Homo sapiens SH3-domain binding protein 1 (SH3RP1) mRNA	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP) mRNA	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
	Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HUMAN	N	NT	NT	EST HUMAN	N-	EST HUMAN	Γ	\top	EST HUMAN	Т		NT.	N	T HUMAN		Т		Z	EST_HUMAN			NT		N						
	Top Hit Acession No.	AA199818.1	2.0E-56 BE064386.1	2.0E-56 BE064386.1	W26061.1	V/26061.1	2.0E-56 AB037835.1	4V703184.1	1.0E-56 AF190930.1		1.0E-56 AW 589833.1		87.1		4758279 NT	4758279 NT	8923349 NT	55.1	8.0E-57 AW264599.1		8279	4758279 NT	AA971001.1	11418185 NT	7.1		4.1		8923349 NT	7019528 NT	11545732 NT	11545732 NT	7657592 NT	7657592 NT
	Most Similar (Top) Hit BLAST E Value	2.0E-56 AA1998	2.0E-56	2.0E-56	2.0E-56 M26061	2.0E-56 M26061.	2.0E-56	2.0E-56	1.0E-56	1.0E-56	1.0E-56	1.0E-56 AI905162	1.0E-56 /	9.0E-57 AW8808	9.0E-57	9.0E-57	8.0E-57	8.0E-57 AW8184	8.0E-57	8.0E-57	8.0E-57	8.0E-57		8.0E-57	8.0E-57 AB02317	8.0E-57 AB02317	8.0E-57	8.0E-57 AB02064	8.0E-67	8.0E-57	8.0E-57	8.0E-57	7.0E-57	7.0E-57
	Expression Signal	2.94	1.19	1.19	1.02	1.02	0.93	1.08	1.44	1.79	1.79	1.52	1.86	1.97	1.17	1.17	1.55	2.91	5.79	1.63	1.02	1.02	96.0	6.35	11.76	11.76	67.78	67.76	3.32	1.27	2.02	1.39	2.02	2.02
	ORF SEQ ID NO:							23210			23322	24606	27863		23786	23787	19790	20079	20642	21651	23060	23061	24750	25004	25915	25916	26594	26595	19790		25251	26251	22353	22354
	Exan SEQ ID NO:					12215	12886	13405	10887	13536	13536	14838	17630	10545	14009	14009	6666	10258	10792	11673	13255	13255	14975	19624	15794	15794	16415	16415	6666	19097	19188	19188	12462	12462
	Probe SEQ ID NO:	513	716	716	2334	2334	2959	3489	964	3622	3622	4963	7780	609	4109	4109	13	294	998	1774	3335	3335	5107	202	2888	2888	9257	6557	877.1	9468	2096	9622	2592	2692

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Table 4
Single Exon Probes Expressed in Heart

				T						7		7	T	1		Ī	7	T	Ť	T	Ī	Ï	T	Ϊ	T			Ī	
Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens NME7 (NME7), mRNA	Homo sapiens NME7 (NME7), mRNA	Homo sapiens Kruppel-like factor 8 (KI FB) mRNA	Homo sapiens phosphatid/linosital 4-kinase 230 (pi4K23n) mBNA complete ad-	Homo sapiens phosphatidy/innsitol 4-kinase 230 (mak/230) months.	Homo sapiens Xq pseudoautosomal region: segment 1/2	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes,	601471226F1 NIH MGC 67 Home canions cDNA class MACE 2021126F1	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA	nc13f07.s1 NCI_CGAP_Pr1 Homo saplens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN	EST64770 Hippocamplis II Homo seniors CONA 61 and	783b10.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3298443 3' similar to WP:Y47H9C.2 CE20263;	733b10.x1 NCI_CGAP_CL1 Homo sepiens cDNA clone IMAGE:3296443 3' similar to WP:Y47H9C.2 CE20263 :	Homo saplens cell-line ts 4 2019 chloride in a month of the second of th	RC3-CT0254-110300-027-410 CT0254 Home series contained in the contract of the	601589896F1 NIH MGC 7 Homo saniens CDNA clans IMAGE 304/302 E	4276 Human retina cDNA randomly primed sublibrary Homo saniens cDNA	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA	AU117659 HEMBA1 Homo saplens cDNA clone HEMBA1001910 5	2820473.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE-2820473 51	2545d11.r1 Soares fetal lung NbHL19W Homo septens cDNA clone INIAGE-308540 5	RC0-HT0112-080999-001-C06 HT0112 Homo saplens cDNA	ak02b02.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1404747 3' similar to	Volucians Alu repolutive erement contains element MEK22 repetitive element ; Homo saniens chromosome 24 commet USas AAA	veg8h01 r1 Soarse fatal liver railcon 4hEr 8.1.	veg8h01.11 Soares felal liver shleen 1NETS Home series cDNA clone IMAGE:125809 5	June 600 State of the State of
Jie Exon Proi	Top Hit Database Source	FN	F	FN	N	NT	NT.	L N	EST HUMAN	Į į	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	EST HUMAN	EST HUMAN	EST_HUMAN	トフ	T.	EST_HUMAN	EST HUMAN	ST_HUMAN	EST_HUMAN		LO LO	T HIMAN	П	
Juic	Top Hit Acession No.	7242158 NT	7242158 NT	FN 626909	2.1	2.1	5.1	4 0E-57 AB026898 1		4507798	5	2			3.0E-57 AF232708.1	L			11545798 NT	11545798 NT	3.1	4.1		5.1	2 OF-57 AABAEA10 4				,
	Most Similar (Top) Hit BLAST E Value	7.0E-57	7.0E-57	7.0E-57	7.0E-57 AF01287	7.0E-57 AF01287	5.0E-57	4.0E-57	4.0E-57 BE78364	3.0E-57	3.0E-57 AA23027	3.0E-57 /	3.0E-57 BE67662	3.0E-57 E	3.0E-57 /	3.0E-57	3.0E-57 BE796537	3.0E-57 W28130.1	3.0E-57	3.0E-57	3.0E-57 AU117650	3.0E-57 AW24837	3.0E-57 W23871.	3.0E-57 AW 17857	2 OF-57 A	2.0E-57 AL163204	2.0E-57 R07702.1	2.0E-57 R07702.1	2 0F-57 AI 163283
	Expression Signal	0.92	0.92	6.49	2.17	2.17	2.99	123	0.96	0.79	11.34	2.83	1.62	1.62	1.15	115.94	3.34	3.95	1.95	1.95	4.65	20.31	5.2	2.15	1	2.91	0.84	0.84	6.88
	ORF SEQ ID NO:	22937		22956	23500	23501		23393	24581	20558		22119	22425	22426	23230		25733	26805	26817	26818	27212	28400	24907		22453	-	23223	23224	24086
	Exen SEQ ID NO:				13713	13713	19656	13608	14813	10716	11215	12222	12535	12535	13430	13553	15630	16615	16630	16630	17019	18159	19721	19628	12563	13309	13421	13421	14303
	Probe SEQ ID NO:	3212	3212	3233	3801	3801	9934	3694	4935	787	1309	2342	2670	2670	3514	3639	5723	6736	6751	6751	7142	8279	9247	9608	2699	3392	3504	3504	4409

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Table 4
Single Exon Probes Expressed in Heart

	similar to contains L1.t3 L1	ilar to contains TAR1.t1	ode	and A	1 2 3 3		78348 5'	ilar to TR:000246 000246	ular to contains THR,b3			ar to TR:015475 015475	ar to TR:015475 015475				anhancer factor 2B)	2 1000	3000	986/ 5) project≔TCAA Homo	project=TCAA Homo		A	ij
Top Hit Descriptor	ze31005.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 6' similar to contains L1.t3 L1 repetitive element;	7n80104.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570866 3' similar to contains TAR1.t1 MER22 repetitive element:	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mBNA complete cds	Homo saplens 17-beta-hydroxysteroid dehydrogenase IV (HSD17PA) gene average 3 and 4	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA	ULHF-BN0-akt-g-07-0-UL1 NIH MGC 50 Homo sapiens cDNA clone IMAGE:3078348 5	ho32a08.xf NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR:O00246 O00246 HYPOTHETICAL 9.3 KD PROTEIN :	he33d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR.b3 THR.b3	601309465F1 NIH MGC 44 Homo sapiens CDNA clans IMAGE: 3831000 E'	601445948F1 NIH MGC 65 Homo saplens cDNA clone IMAGE 3850211 5	#34b07.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN :	124b07.x1 NCI_CGAP_Ov23 Homo saplens cDNA clone IMAGE:2220181 3' similar to TR:015475 015475 UNNAMED HERV-H PROTEIN .	Homo sapiens putative protein O-mannos/dransferase (DOM/T2) mBN/A	Homo sapiens putative protein O-mannosvitransferase (POMT2), mRNA	Homo sapiens DHHC1 protein (LOC51304), mRNA	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA	UI-HF-BN0-all-6-10-0-UI rt NIH MGC 50 Home santans and a class MA GE 30-75-67	ULHE-BNO-all-0-10-0-11 of NIH MGC 50 Home emplets of NIH OF 10-01-01	601309465F1 NIH MGC 44 Home seniors CDNA Apro 1844 CE 234000 E	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo	Homo sabiens protein tractine phoenhalms and proceedings and processing the same of the sa	Homo sepiens hypothetical protein FL/20454 (FL/20454), mRNA	
Top Hit Database Source	EST_HUMAN	EST HUMAN	NT	TN	NT	TN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	LN LN	F	LN LN	L	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HIMAN		Ę	
Top Hit Acession No.	AA016131.1	BF115266.1	2.0E-57 AF045452.1	AF057722.1	11424084 NT	11424084 NT	1.0E-57 AW 503208.1	BE043031.1	1.0E-57 AW470791.1	BE395061.1	BE868715.1	AI798376.1	AI798376.1	11434921 NT	11434921 NT	7706132 NT	5174542 NT	7.0E-58 AW 504109.1	7.0E-58 AW504109.1	6.0E-58 BE395061.1	6.0E-58 AU130689.1	BE242150.1	3E242150 1		11526291 NT	
Most Similar (Top) Hit BLAST E Value	2.0E-57 AA016	2.0E-57 BF116	2.0E-57	2.0E-57 AF057	2.0E-57	2.0E-57	1.0E-57	1.0E-57 BE0430	1.0E-57	9.0E-58 BE395(8.0E-58 BE8687	8.0E-58 AI7983	8.0E-58 AI7983	8.0E-58	8.0E-58	8.0E-58	7.0E-58	7.0E-58	7.0E-58	8.0E-58	6.0E-58	6.0E-58	6.0E-58 BE2424	6.0E-58	6.0E-58	
Expression Signal	1.43	28.14	1.29	1.71	2.22	2.22	1.12	2.08	3.47	1.43	1.41	2.62	2.62	2.23	2.23	2.83	5.61	3.25	3.25	6.0	2.96	1.19	1.19	1.3	1.8	
ORF SEQ ID NO:			27084	27742	28729	28730	21973			25238		20389	20390	21588	21589		·	28425	28426	21997	22105	22592	22593	28000		
Exon SEQ ID NO:	15398	15585	16894	17515	18460	18460	12071	16922	19055	19223	10512	10575	10575	11710	11710	12872	18112	18179	18179	12094	12205	12798	12798	17759	19109	
Probe SEQ ID NO:	. 5478	5676	7017	7665	8592	8592	2184	7045	9401	9663	574	638	638	1813	1813	2945	8231	8300	8300	2207	2324	2871	2871	7909	9492	

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Table 4
Single Exon Probes Expressed in Heart

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כייומני באנון ויסבים באלום פספים וויום משוו	Top Hit Descriptor	Homo sapiens synaptojanin 1 (SYNJ1), mRNA	RC4-NT0057-160600-016-b05 NT0057 Homo sapiens cDNA	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA	CM3-UM0043-240300-127-e07 UM0043 Homo saplens cDNA	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA	or98e07.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clane IMAGE:1603908 3'	Homo sapiens placenta-specific 1 (PLAC1), mRNA	ym51h07.r1 Soares infant brain 1NIB Homo saplens cDNA clone IMAGE:52071 5	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA	Homo saplens hypothetical protein FLJ10826 (FLJ10826), mRNA	Homo sapiens chromosome 21 segment HS21C018	Homo sapiens cat eye syndrome chromosome region, candidate 1 (CECR1), mRNA	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP50) mRNA	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B)	(F9) mRNA	Homo sapiens ubiquitin-conjugating BIR-domain enzyme APOLLON mRNA, complete cds	Human beta-prime-adaptin (BAM22) gene, exon 3	Human mRNA, Xq terminal portion	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA	Homo sapiens E1B-55kDa-associated protein 5 (E1B-AP5), mRNA	yg10e02.r1 Scares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31693 5'	Homo sapiens peptide YY (PYY) mRNA	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'	Homo saplens 5-aminolevulinate synthase 2 (ALAS2) gene, complete cds	ba08b07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb:X69391 60S	INDOSOWAL PROTEIN L6 (HUMAN); 9D:X81987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
gic Lyon 1	Top Hit Database Source	N.	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	Ę	EST HUMAN	<u>N</u>	N	닏	N	Ę	Į.	날		뉟	μ	닐	ΝΤ	Ŋ	Ν	EST_HUMAN	MT	EST_HUMAN	EST_HUMAN	EST_HUMAN	Į.		EST HUMAN	EST_HUMAN
5	Top Hit Acessian No.	4507334 NT	5.0E-58 BE763984.1	AW 797948.1	AW 797948.1	AW797948.1	AW 797948.1	AA988183.1	11496282	H23072.1	11421330 NT	R922693 NT	5.0E-58 AL163218.2	11528293 NT	11418177 NT	4502302 NT	4504634 NT		4503648 NT	4.0E-58 AF265555.1	J36251.1	D16470.1	5031660 NT	11424059 NT	317879.1	4758981 NT	3.0E-58 BF569848.1	3.0E-58 BF569848.1	3.0E-58 AV712977.1	2.0E-58 AF068624.1		2.0E-58 BE208532.1	3E907186.1
	Most Similar (Top) Hit BLAST E Value.	5.0E-58	5.0E-58	5.0E-58 AW 797	5.0E-58 AW 797	5.0E-58 AW 797	5.0E-58 AW797	5.0E-58	5.0E-58	5.0E-58 H23072	5.0E-58	5.0E-58	5.0E-58	5.0⋶-58	5.0E-58	4.0E-58	4.0E-58		4.0E-58	4.0E-58	4.0E-58 U36251	4.0E-58	4.0E-58	4.0E-58	3.0E-58 R17879.1	3.0E-58	3.0E-58	3.0E-58	3.0E-58	2.0E-58		2.0E-58	2.0E-68 BE9071
	Expression Signal	2.9	5.87	4.47	4.47	2.89	2.99	3.56	2.21	5.86	1.45	6.77	1.56	3.26	2.49	17.97	1.58		1.24	0.97	2.7	1.1	2.11	7.54	1.17	2.34	2.91	2.91	1.39	8.16		12.06	4.42
	ORF SEQ ID NO:	20081		20932	20933								27923			20147	20548						23380			21129				20698			24986
	Exan SEQ ID NO:	10261	10626	11088	11088	11088	11088	13202	15378	15656	15800	16527	17679	19650	19362	10325	10709		11357	12405	12461	13204	13594	18515	10291	11273	13066	13066	15907	10850		11175	19441
•	Probe SEQ ID NO:	297	E69	1176	1176	1177	1177	3281	5458	5748	5894	6647	7829	9215	9876	369	779	i,	1452	2531	2590	3283	3680	8651	332	1367	3141	3141	6002	925	_	1268	5288

Page 245 of 413 Table 4 Single Exon Probes Fxnressed in

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	601499861F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3601011 F	am57e02.x1 Johnston frontal cortex Homo saplens cDNA clone IMAGE:1539674 3' similar to WP:ZK328 1 CE05065 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN .	Homo sapiens endocytic recentor Endo/80 (ENIDO/80) "BNA	Homo sapiens endocytic recentor Endot 80 (ENDOTER) IMBNA COMPLETE STATES	601890812F1 NIH MGC 17 Homo seniens clona clona IMAGE:4131804 E1	hm25f08.x1 NCI CGAP Thy4 Home saniers CDN4 closs INA CE-2000621 01	Human complement component C5 mRNA, 3'end	Homo saplens NADH dehvdragenese (ribiguinome) 1 Lete al Lete	FST369252 MAGE recentioned MAGD Liver Control (NDUFB9), mRNA	EST369252 MAGE resemblances, MACD Tomos CLINA	Homo sapiens partiel AE-4 dene expres 2 to 7 and All control of	Indiotos x NCI CCAP GCA Home series CNA Comments	Homo sapiens starol regulatory element hinding to a control of the	Homo sapiens chondrottin enifete and continue of the continue	Homo sapiens chandratin sulfate undercharen 2 (mariam) (CSPG2) mKNA	Homo sapiens transition protein 1 (4) river birthms (5)	Human brohomone converting ename (NECO) with a spiral line replacement (TNP1) mRNA	loz43h01.x1 Spares NhHMP: S1 Homo continue CNN - 1 111.50 cm.	Homo sapiens myomesin (M-protein) 2 (165kn) (AVOM3) BNIA	H.sapiens immunodiobulin kappa light chain variable region 1.14	Homo saplens TATA box binding protein (TBP) mRNA	wh50d06.x1 NCI CGAP Kid11 Homo saniens cDNA close MARCE 2284474 2	601458531F1 NIH MGC 66 Home centers and contributed and contri	W48611X1 Soares NET T GBC S1 Long conjusting the Constitution of t	H.saplens DNA for ZNF80-linked ERV9 long farminal ranget	au66c07.xf Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to conteins	element TAR1 repetitive element;	AV762869 MDS Homo saplens cDNA clone MDSEIC12 5'	Homo saplens hypothetical protein (LOC57143), mRNA	Human mRNA for KIAA0184 gene, partial cds	Homo saplens ryanodine receptor 3 (RYR3) mRNA
gle Exon Pro	Top Hit Database Source	EST_HUMAN	EST HUMAN	NT	LN	EST_HUMAN	EST HUMAN	TN	NT	EST HUMAN	EST HUMAN	NT	EST HUMAN	1	Į.	TN	Ä	NT	EST HUMAN	NT	TN	Z.	EST HUMAN	EST HUMAN	EST HUMAN	N		EST HUMAN	EST_HUMAN	누	L	5
Sin	Top Hit Acession No.	BE907186.1	A124874.1	2.0E-58 AF134838.1	2.0E-58 AF134838.1	BF307745.1	AW872641.1	1.0E-58 M65134.1	6274549 NT	_	AW957182.1	33.1	32.1	4759169	4758081 NT	4758081 NT	4507628 NT		Γ	1.0E-58 4505314 NT	-	4507378 NT	8.0E-59 Al761963.1	27.1	T	5.0E-59 X83497.1		7.7	20.1	11434908	-	4506758 NT
	Most Similar (Top) Hit BLAST E Value	2.0E-58 BE9071	2.0E-58 A12487	2.0E-58	2.0E-58	2.0E-58 BF3077	2.0E-58	1.0E-58	1.0E-58	1.0E-58 AW957	1.0E-58 AW957	1.0E-58 AJ2380	1.0E-58 BE4661	1.0E-58	1.0E-58	1.0E-58	1.0E-58	1.0E-58 M95963	1.0E-58	1.0E-58	1.0E-58 X63392	8.0E-59	8.0E-59	6.0E-59 BF0353;	5.0E-59	5.0E-59 >	10	0.05-09	5.0E-59 AV/6280	5.0E-59	4.0E-59 D80006.	4.05-29
	Expression Signal	4.42	1.74	2.76	2.76	10.79	2.26	0.93	5.45	2.17	2.17	1.07	2.02	96.0	96.0	96'0	0.84	0.89	4.86	6.7	3.46	27.47	1.2	1.83	6.21	5.85	7	\$ 5	V-	2.8	74.7	17.
	ORF SEQ ID NO:	25010	25731		26264	28258	28459	20463	20811	21067	21068	21136	21406	22527	23215	23216	23360	24306	24553	27217		21971	26826		22807	24237	24850	27682	70077	58597 57300	04060	74500
	Exon SEQ ID NO:	19441	15628	16112	16112	18011	18209	10638	10969	11212	11212	11281	11545	12633	13409	13409	13573	14515	14775	17023	18790	12069	16638	12660	13015	14451	15130	17447	107.50	10100	14574	1
	Probe SEQ ID NO:	5288	5721	6246	6246	8123	8332	705	1052	1305	1305	1375	1641	2771	3493	3493	3659	4627	4895	7146	8982	2182	6759	171	3088	4559	6173	7596	02770	776	ARBE	3

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens ryanodine recentor 3 (RVR3) mRNA	House contract of the second o	FORTYTERS MACE receiption and expension denyaring region and expension a	Homo saniens KIAAAASA gane arcellus (VIAAASA) — DANA	Homo sablens plasmingen activable fice is 7D ATA - BNA	Home sapiens plasminoden activator fissus (PLA18) minna	Homo sabiens mRNA for KIAA112 protein partial calc	Homo saplens mRNA for KIAA1112 protein partial cde	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1)DNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1) mpNA	Homo saplens zona bellucida alumanahan 2 keneran menerah (2002). Pana	Homo sapiens Testis-specific XK-related protein on V (XKDV) which	Homo saplens protein tyrosine phosphetase repentant type 7 (DTODT)	Homo sapiens hypothetical protein PRO1744 (PRO1744), mptvA	Homo sapiens nuclear recentor co-remessor 1 (NCOR1), mRN/A	Human mRNA for dbl proto-concordes	Human mRNA for dbl proto-processes	Homo sabiens damma-diriamytransferesa like activity (CCTI A4)	Homo saplens damma-dulamyltransferase like activity, 1 (CGT A.V. 1981)	EST180633 Jurkai T-cells V Home sanions chiva 6 m-d	RC0-NT0036-100700-032-907 NT0036 Homo saniens chua	fh07h04.x1 NIH MGC 17 Homo sapiens cDNA clare MACE:3084854 51	fh07h04.x1 NIH MGC 17 Homo sabiens cDNA clone NACE-2081654 5	wa36c12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542 088549 RTVI_H PROTEIN contains 1 TD2 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Homo sapiens alpha tithilin mony	601176757F1 NIH MGC 17 Homo sanlens china IMA CE assacrate:	oa56h11.s1 NCI_CGAP_GCB1 Homo sapiens CDNA clone IMAGE:1309029 3' similar to TR-013537	Q13537 MER37 TRANSPOSABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.	Homo sapiens mRNA for transcription factor	Homo sapiens zinc finger protein 275 (ZNF275), mRNA	Homo sapiens mRNA for transcription factor	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
JIO EXON Prop	Top Hit Database Source	N-	F	EST HI MAN	NT	NT.	Į.	LN L	NT	Į.	L	NT.	۲×	F	5	5	NT.	N	F	느	EST HUMAN	Т	HUMAN	Γ		Т	T_HUMAN		T HUMAN				
ino	Top Hit Acession No.	4506758 NT	20.1	524.1	2247	4505860 NT	4505860 NT	35.1	35.1	4502014 NT	4502014 NT	4508044 NT	4759329 NT	7427522 NT	8924074 NT	5454137 NT		-	11417866 NT		74.1		2.0E-59 AW410698.1			-	11.1		1	1.0E-59 AJ130894.1	883	1.0E-59 AJ130894.1	4759159 NT
	Most Similar (Top) Hit BLAST E Value	4.0E-59	4 0F-59 AF057	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59 AB0290	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59	3.0E-59 X12556.	3.0E-59 X12556	3.0E-59	3.0E-59	2.0E-59 AA3097	2.0E-59 BF3655	2.0E-59 #	2.0E-59	2.0E-59 A	2.0E-59 L11645	1.0E-59 BE29641	1	1.0E-59.A	1.0E-59	1.05-59	1.0E-59 A	8.0E-60
	Expression Signal	12	2.16	6.96	4.12	78'6	9.87	7.68	7.68	3.71	3.71	1.17	1.07	1.85	2.03	1.82	1.23	1.23	1.64	3.9	5.01	2.47	1.84	1.84	5.14	2.75	3.58		2.40	2 2	200	6.32	2.71
	ORF SEQ ID NO:	24369			20002	21455	21466	21866		22811							26697	26698					28341	28342	25359	24997			26488	20400	261924	7407	147717
	Exon SEQ ID NO:	14571	19586	1	10191	11584	11584	11972	11972	13017	13017	13666	14569	14619	15679	16215	16509	16509	19014	19101	17406	17853	18089	18089	18953	19611	10131	12446	16322	17040	16322	11367	2001
	Probe SEQ ID NO:	4685	9356	6	221	1682	1682	2082	2082	3080	3030	3753	4683	4734	2112	6352	6299	6629	9333	9474	7555	8003	8205	8205	9235	9756	157	9575	6463	2072	8220	1455	200

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	Top Hit Descriptor		in a fine and a fine a	specific induction protein) (RTP) mRNA	Specific material protein) (RTP) mRNA	270	westin)(SAC) mBNA	CAN III (CAC) (import						< A C C C C C C C C C	Ayrilli, ,	SUS AND AND AND AND AND AND AND AND AND AND	y12f04.11 Soares fetal liver spleen 1NFLS Homo sapiens CDNA clone IMAGE:205087 5' similar to contains		yr12f04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element ;	yq/8h09.r1 Scares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201953 5' similar to contains OFR renetitive element:		CUIVA Clone IMAGE:2359212 3	S CUIVA GIONE IMAGE: 2339272 3	piens cDNA clone IMACE:30/8348 5	To similar to refraging related and	One MACE 360020E E	one MACE 3600305 E	C CACCACACACACACACACACACACACACACACACACA	119	S CONA	d60h11.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE	THOUSE IN THE STATE OF THE STAT	e) (PRODH) mRNA
Single Exon Probes Expressed in Heart			Homo sapiens differentiation-related game 1 (nicket game) - 1	Homo sablens differentiation-related name 1 (nicket specific induction protein) (KTP) mKNA	Homo sapiens mRNA for KIAA1081 protein partial cde	Human mRNA for integrin alpha-2 subunit	Homo sapiens S-antigen: retina and pineal pland (arrestin) (\$45) mBNA	Homo saplens KIAA0433 profein (KIAA0433) mRNA	Homo sapiens KIAA0433 protein (KIAA0433) mBNA	Homo sapiens chromosome 21 serment HS21C004	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens MHC class 1 region	Homo sapiens MHC class 1 region	Homo sapiens interferikin 10 recentor hete (1) 1000)	Homo sapiens cullin 44 (Ctil 44) mBNA complete ada	Homo sapiens omithing decarboxdase 1 (ODC1) mBNA	y12f04.r1 Soares fetal liver spleen 1NFLS	LTR5 repetitive element;	yr12f04.r1 Soares fetal liver spleen 1NFLS LTR5 repetitive element;	yq78h09.r1 Soares fetal liver spleen 1NFLS	W52c07 x1 Source NEI T CBC c4 Long	WISSON X Spares NET CRC 84 Home series CUIVA GIONE IMAGE: 2359212 3	UI-HF-BNO-akt-a-07-0-UI-1 NIH MGC 60 Home seniors contact the little of	UI-HF-BNO-akt-q-07-0-UI-1 NIH MGC 50 Home saviens con A close IMA CE 2023 25	EST11498 Uterus Homo saplens cDNA 5 end similar to similar to refragire solated and	601336446F1 NIH MGC 44 Homo seniens CONA clone IMA CE-segona E-	601336446F1 NIH MGC 44 Home seniens cDNA clane IMAGE: 3800205 5	Homo saplens prohibitin (PHB) mRNA	Homo sapiens Xq pseudoautosomal region: segment 1/2	RC3-LT0023-200100-012-a01 LT0023 Homo sapiens cDNA	d60h11.y5 NCI_CGAP_Kid3 Homo sapiens	Homo saniens profine delaufronness ()	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
gle Exon Pro	Top Hit Database	Source	NT	NT	N.	N	NT	N.	N	N.	IN.	F	N-	Į.	Z	N.	100	EST_HUMAN	EST_HUMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Г		TN	EST_HUMAN	ECT LIMANI	NO. 1	
Sing	Top Hit Acession		5174656 NT		AB029004.1		11428949 NT	11417118 NT	11417118 NT	04.2	24.2	Γ	7.0E-60 AF055066.1	4504634/NT	88.1	4505488	,		۲.	-	7.1	7.7	308.1	108.1		Γ	11.1	6031190		3.0E-60 AW836196.1	4.4	5174644	5174644 NT
	Most Similar (Top) Hit BLAST E	Value	8.0E-60	8.0E-60	8.0E-60 AB029(8.0E-60	8.0E-60	8.0E-60	8.0E-60	8.0E-60 AL1632	8.0E-60	7.0E-60 AF0550	7.0E-60	7.0E-60	7.0E-60 AF0771	7.0E-60	7 05 60	7.0E-50 H58041	7.0E-60 H58041	6.0E-60 H52456	5.0E-60 AI80791	5.0E-60 AI80791	4.0E-60	4.0E-60 AW 503	4.0E-60 AA2990;	3.0E-60	3.0E-60 BE5626	3.0E-60	3.0E-60 AJ27173	3.0E-80 /	3.0E-60 A170284	3.0E-60	3.0E-60
	Expression Signal		2.7	2.7	1.41	2.6	2.26	1.68	1.68	5.38	5.38	69.9	32.94	1.15	1.56	2.63	3 78	97.0	1.96	. 7.13	1.94	1.94	0.93	0.93	1.12	4.85	4.85	222	2.08	2.06	1.31	5.4	5.4
	ORF SEQ ID NO:		21911	21912	25645	26718	27240	27465	27466	28344	28345	20504	20504	20567	21865	23765	27488	004.77	28843		19878	19879	21979	21980		21591	21592		24035	25443	24876	26968	26969
	Exam SEQ ID	ž	12013	12013	15553	16524		17260	17260	18091	18091	10669	10669	10727	11971	13988	17279	213	18559	16792	10062	10062	12075	12075	12869	11712	11712	11723	14250	15383	16111	16775	16775
	Probe SEQ ID	Š	2125	2125	5640	6644	7174	7451	7451	8207	8207	737	738	798	2081	4088	7412	1	8671	6914	78	78	2188	2188	2942	1815	1815	1826	4354	2463	6153	9689	9889

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Table 4
Single Exon Probes Expressed in Heart

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Paul II Describing Try Communication of the Communi	Top Hit Descriptor	ox56d09.xt Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW-FORM MOLISF Oneses FODMIN .	Homo sapiens profite dehadrament (areline at 17 miles)	601646227F1 NIH MGC 60 Hamo saplens CINA clane IMAGE connection	C DRACES TO LANGE IN COLOR OF THE COLOR OF T	House sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochandrial product	Himsen has make in work of the second of the	Home saniane chromosomo 21 miliones	Homo sapiens criticalisating 210 cultura (COL 4.82)	Homo sapiens corticutouly releasing by	Home serious controlled to the control of the contr	EST181949 Intral Toels V Home conjunction of the co	EST181949 Intel Toels V Home enjoys blits of the similar to similar to prothymosin, alpha	Human pre-B cell stimulating factor homologue (SDE14) mBNA completed.	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A	Home canisms can bide	Homo sepiens nutrinstate chiefundsome protein 2 (S. cerevislae)-like 1 (NHP2L1), mRNA	Homo saplens similar to HSDC022 matein (1988) gene, 5' flanking region and partial cds	Homo sapiens dene for AF-8, complete cds	Homo sapiens calcium channel, voltage-denendent, glabs 11 cribinati (CA Childa)	PM3-HT0605-270200-001-e06 HT0605 Homo sarians - DNA	AU143389 Y79AA1 Homo septems cDNA clone Y79A A 10n19E4 E1	Homo sapiens chromosome 21 segment HS21Cn85	nc04e12.r1 NCI_CGAP_Pr1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.t1 L1	Sylve clantan,	AV 3400 IF name septens cunA clone i PGAED05 5	AUTISS44 FEMBAT Homo sapiens cDNA clone HEMBA1005583 57	wto5b10.x1 NCI_CGAP_Co3 Homo sapiens cDNA done IMAGE;2506555 3*	Human endogenous retrovirus PHE.1 (ERV9)
מוס בייסוו ו	Top Hit Database Source	EST HUMAN	NT	EST HUMAN	±14	LA	L	TN	LN L	LN	5	EST HUMAN	EST HUMAN	N	IN	L	L'Z	L	L	NT	5	EST HUMAN	EST HUMAN	Γ	FOT LINGAN	Т	Т	Т	Т	NT
5	Top Hit Acession No.	Aló40235.1	5174644 NT	3.0E-60 BF102612.1	AVOIDS 24	711694 1	V24603.1	2.0E-60 AF231919.1	AF004877.1	4503044 NT	4503044 NT	2.0E-60 AA311159.1	VA311159.1	2.0E-60 L36033.1	11991659 NT	11991650 NT	TN C018171	2.0E-80 AF068757 1	8908	9.1	11418157 NT				1.0E-60 AA244041 1	T			2 8	
	Most Similar (Top) Hit BLAST E Value	3.0E-60 AI04023	3.0E-60	3.0E-60	2 0E-60 AV0083	20E-60 Z11694	2.0E-60	2.0E-60/	2.0E-60 AF0048	2.0E-60	2.0E-60	2.0E-60 /	2.0E-60 /	2.0E-60 L	2.0E-60	2.0E-80	2.0E-60	2.0E-80 A	2.0E-60	2.0E-60 AB01139	2.0E-60	1.0E-60 B	1.0E-60 A	1.0E-60 A	1.0E-60 A	1.0E-60 A	9.0F-61 A	8.0E-61 A	8.0E-61 AW0064	8.0E-61 X57147.1
	Expression Signal	2.59	4.7	3.84	- 62	2.89	1,28	0.78	1.57	2.44	2.44	3.22	3.22	3.86	1.89	1.89	2.86	1.31	1.46	1.47	4.4	1.56	1.12	1.1	2.9	1.58	1.9	1.33	1.39	1.74
	ORF SEQ ID NO:	. 27061		27637	19810		21462			24880		26238	26239	27216	27806	27807					25169	20264	23531	24533		27170	20840	22395	22396	
	Exon SEQ ID NO:	16867	16954	17420	10015	11310	11593	13750	15816	15103	15103	16088	16088	17022	17582	17582	19123	19573	19209	19220	19420	10453	13739	14754	16983	16978	10999	12502	12502	12848
	Probe SEQ ID NO:	0689	7077	7669	78	1405	1691	3839	5910	6093 E	6093	6222	6222	7145	7732	7732	9509	9639	9641	9658	8827	51.1	3827	4874	7086	7101	1083	2635	2635	2921
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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sepiens PXR2b protein (PXR2b), mRNA	Homo saplens PXR2b protein (PXR2b) mRNA	Homo sapiens PXR2b protein (PXR2b) mRNA	Homo sapiens PXR2b protein (PXR2b) mRNA	601300938F1 NIH MGC 21 Homo saniers cDNA doma NAA CE 2825482 EI	601300938F1 NIH MGC 21 Homo seriens CDNA Alma INACE: 3625480 5	Homo sapiens PRO2014 mRNA complete cds	601109238F1 NIH MGC 16 Homo saniens CONA dans MA CE 3250115 E1	nn66h09.st NC	AU130689 NT2RP3 Homo saniens CDNA close NT3009304782 E1	Ig-beta/829=CD796 (alternatively shifteed) finitings in Society Profits Total Profits 1975	Human autosomal dominant naturative kidney disease protein 4 (DKDA)	Homo sapiens general transcription factor 2J (CTF2) mPNA completed.	601300938F1 NIH MGC 21 Home series chiva Aura MA Chambar at	Homo saciens protein phosphatase 1 remiliative culture 40 (0004.04)	Homo sabiens chromosome 21 segment 1822/0720	Homo sapiens mRNA for K/AA0825 mylein harital ade	Homa caniane amilinid hata / A / second seco	Homo sabiens 959 kh confir helywen AMI 1 and CDD 1.	AV731140 HTF Homo saniens china Headboard is	601309785F1 NIH MGC 44 Homo saniens china Mace: 3833733 FI	Homo sapiens hypothetical protein FL/11026 (FL.11026) mRNA	QV3-HT0513-060400-147-d01 HT0513 Homo sabiens cDNA	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA	yv53d11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:246453 3' similar to	go:L29444 ous RibosomAL PROTEIN L35A (HUMAN); Homo saniens calmadin (CL CN)	10044 - 4 Section 2011 (2011) 111	yyysi I.i.i Soares meanocyte ZNbHM Homo sapiens cDNA clone IMAGE:270189 5'	14 (10/116kD) (ATP6N1A), mRNA	AV694317 GKC Homo sapiens cDNA clone GKCEL G06 5	UI-HF-BNO-akd-f-12-0-UI-r/ NIH MGC 50 Homo seniens oDNA clone IMAGE-3072777 F	Homo saplens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
Top Hit Database Source	Į.	Ł	F	F	EST HUMAN	EST HUMAN	F	EST HUMAN	EST HUMAN	EST HUMAN	Ę	N	L	EST HUMAN	NT	NT	LN	Ę	LN	T HUMAN	Τ		EST_HUMAN	EST_HUMAN		NAME I	T LII INAANI	EST DOWN		EST_HUMAN	T HUMAN	
Top Hit Acession No.	TV06670 NT	7706670 NT	7706870 NT	T706670 NT		6.0E-61 BE409310.1	6.0E-61 AF119860.1	6.0E-61 BE257400.1	AA596033.1	6.0E-61 AU130689.1	6.0E-61 S79249.1	6.0E-61 U24498.1	AF035737.1	6.0E-61 BE409310.1	4506008 NT	AL163279.2	5.0E-61 AB020632.1	4502466 NT	AJ229041.1	AV731140.1	BE396279.1	8922829 NT	BE168410.1	BE168410.1	NE2020 4			(cocc)	11426166 NT		2.0E-61 AW500256.1	1778
Most Similar (Top) Hit BLAST E Value	7.0E-61	7.0E-61	7.0E-61	7.0E-61	6.0E-61 BE4093	6.0E-61	6.0E-61	6.0E-61	6.0E-61 AA5960	6.0E-61	6.0E-61	6.0E-61	6.0E-61 AF0357	6.0E-61	5.0E-61	5.0E-61 AL1632	5.0E-81	5.0E-61	5.0E-61 AJ22904	4.DE-61 AV7311	3.0E-61 BE3962	2.0E-61	2.0E-61 BE1684	2.0E-61 BE1684	2 OF 84 N53030	2.0E-61	2 0F-61 N30307	7000	2.0E-61	2.0E-61 AV69431	2.0E-61	2.0E-61
Expression Signal	0.94	0.94	98.0	98.0	2	1.69	10.28	0.95	2.12	8.19	2.92	1.93	2.03	1.43	1.78	1.92	0.84	6,1	1.68	2.76	1.13	1.5	1.35	1.35	131	1.41	1 16		1.7	1.33	1.62	3.09
ORF SEQ ID NO:		19919	19918	19919	20045	20564	21060	21376	21392	22987	25684	26370	26521	20564	21421	22720	22835	22890			23797	20246	20950	20951	21407	21897			25896	27279	27783	27979
Exon SEQ ID NO:	10098	10098	10098	10098	10230	10723	11206	11516	11532	13189	15583	16207	16351	10723	11558	12928	13039	13086	13809	18941	14019	10433	1104	1104	11546	11998	12472		15777	17089	17557	17735
Probe SEQ ID NO:	122	122	123	123	265	794	1299	1612	1628	3266	5674	6344	6492	9417	1655	3000	3114	3161	3899	9213	4119	490	- 194	1194	1642	2109	2604		5871	7212	7707	7885

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Top Hit Descriptor	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1) (AUTOANTIGEN NOR-80)	qg56a04.x1 Sogres_testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103 O15103 HYPOTHETICAL 27.3 KD PROTEIN :	Human zinc finger protein ZNF131 mRNA, partial cds	Homo sapiens CGI-56 protein (CGI-56), mRNA	wi04d02x1 NCI_CGAP_CLL1 Homo saplens cDNA clone IMAGE:2389251 3'	wi04d02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'	Homo sapiens CGI-18 protein (LOC51008), mRNA	MR3-ST0203-130100-025-a09 ST0203 Hamo sapiens cDNA	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95; contains element MER22 repetitive element :	Homo saplens Xq pseudoautosomal region; segment 1/2	Homo sapiens Xq pseudoautosomal region: segment 1/2	Homo sapiens ryanodine receptor 3 (RYR3) mRNA	Zw78e09.s1 Sogres_testls_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT P47245 NARDILYSIN:	fh07g09.x1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:2961616 F	Homo sapiens muscle specific gene (M9), mRNA	Homo sapiens muscle specific gene (M9), mRNA	au71d03.yl Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAL PRECLIRSOR (HIIMAN):	au71403.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 6' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAL PRECURSOR (HIMAN)	au71403./1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 6' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAI PRECLIRSOR (HIMAN):	au71403./J Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5 similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6. MITOCHONDRIAI PRECI IRSOD (UI MAAN)	EST182043 Jurkat T-cells V Homo sapiens cDNA 5 end	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2350359 3' similar to gb:X57138_ma1 HISTONE H2B.2 (HUMAN);	Homo sapiens keratin 18 (KRT18) mRNA
Top Hit Database Source	SWISSPROT	EST_HUMAN	N	F	EST_HUMAN	EST_HUMAN	LN.	EST_HUMAN	EST HUMAN	NT	NT	TN	EST HUMAN	EST HUMAN		NT	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	N
Top Hit Acession No.	P17480	1.1	1	11418255 NT	AI762801.1	Al762801.1	11431139 NT	6.0E-62 AW814393.1	Al950528.1	5.0E-62 AJ271735.1	AJ271735.1	5.0E-62 4506758 NT	5.0E-62 AA431093.1	5.0E-62 AW410687.1	11425574 NT	11425574 NT	4.0E-62 AW161479.1	4.0E-62 AW161479.1	4.0E-62 AW161479.1	4.0E-62 AW161479.1	4.0E-62 AA311281.1	41827900.1	A1827900.1	4557887 NT
Most Similar (Top) Hit BLAST E Value	7.0E-62	7.0E-62 AI20868	6.0E-62 U09410	6.0E-62	6.0E-62 AI76280	6.0E-62 AI762801	6.0E-62	6.0E-62	5.0E-62 Al95052	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	5.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62 AI827900	4.0E-62 AI827900	4.0E-62
Expression Signal	0.79	4	1.07	3.93	3.33	3.33	1.4	2.76	1.49	3.26	3.26	2.17	1.65	6.17	4.91	4.91	3.47	3.47	4.63	4.63	0.89	1.39	1.39	9.9
ORF SEQ ID NO:	23184	28829						27460	20183	22132		23090		27556		28724	20597	20598	20597	20698		22183	22184	
Exon SEQ ID NO:	13378	18546	12896	13258	16355	16355	16683	17255	10356			13291	14131	17352	18455	18455	10750	10750	10750	10750	11351	12286	12286	13273
Probe SEQ ID NO:	3462	8657	2969	3338	6496	6496	6804	7386	410	2356	2356	3372	4233	7482	8587	8587	822	82	823	. 823	1446	2409	2409	3353

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5	Homo septens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA	omo sanijans Uhiru iffin eneriffa professe O V cheeses	Homo sapiens phosphorithosy monthosphate comfreed 2 (bedes)	Homo sapiens eukarvotic translation initiation factor 2R subjunt 2 (heta 30km) (E1E2B2)	Homo sapiens eukarvotic translation initiation factor 28 eutsmit 2 (heta 30kD) (Eliz 202), IIIRNA	Homo sapiens mRNA for KIAA1263 protein, partial cds	H.sapiens flow-sorted chromosome 6 Hindill fragment, SC6pA16D3	H. sapiens flow-sorted chromosome 6 Hindll fragment SCBA 1673	Homo sapiens butative nuclear protein (HRIHFR2122) mRNA	Homo sabiens non-histone chromosome protein 2 (S. Assasielica) life 4 Allubal 4).	Homo sapiens cadharin EGF (AG seven-base G-has recentar 4 / CEI CD4) DNA	Homo sapiens calcineurin binding profein 1 (KIAAARRA), mRNA	Homo sapiens calcineurin binding protein 1 (Kia Anago), mbNA	Homo sabiens low density linearciein related protein 2/1 DD31 DNA	Homo satiens neurofilmomin 2 (historial grounding homes) (NEO) 2011	Home capitons making or KIAAAAZE	Homo saniens mRNA for KIAAAA76 motein, partial cds	Human cyclophilingolated processed associations	RASHA Y NCI CGAD KI414 Home and home an	THR repetitive element :	Homo sapiens chromosome 21 segment HS21C084	RC0-BN0284-300500-031-e05 BN0284 Horm saniens cDNA	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubliquitin-conjugating enzyme F2D 3	(UBEZD3) genes, complete cds	QV4-BT0257-081199-017-e03 BT0257 Homo saplens cDNA	Homo sapiens intersectin 2 (SH3D1B) mRNA complete cds	Homo sapiens ADP/ATP carrier protein (ANT-2) gene complete ods	a70e11.r1 Scares_NhHMPu_S1 Home sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1 CF03453 ·	EST HUMAN : DKFZp568F104 r1 568 (sunpnym: hft/d2) Home semions of NA steed Free Free Steed	There is the confirmation of the confirmation
lie Exon Prope	Top Hit Database Source	N FN							IN													EST HUMAN TI	Г	EST HUMAN R	Г		_	T_HUMAN	Ĭ	Ĭ	EST HIMAN C	ST HUMAN D	
Silio	Top Hit Acession No.	4.0E-62 AJ243213.1	4506978 NT	11420654 NT	11421041 NT	7657057 NT	7657057 NT	4.0E-62 AB033089.1	4.0E-62 Z78766.1	3.1	11418086 NT	11418192 NT	11418322	11417862 NT	11417862 NT	11430460 NT	4557794 NT	900 1	909.1			33.1			Γ				1.0E-62 AF248540.1		1.0E-62 AA625207.1	Π	
	Most Similar (Top) Hit BLAST E Value	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-82	4.0E-62	4.0E-62 Z7876	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	4.0E-62	3.0E-82	3.0F-62 ARD40	3.0E-62	3.0E-62 X52858 1		3.0E-62 AI6327	2.0E-62 AL163	2.0E-62	2.0E-62	1	2.0E-62 AF224(2.0E-62 E	1.0E-62	1.0E-62 L78810.1	1.0E-62	1.0E-62	
	Expression Signal	2.03	1.66	2.42	1.68	221	2.21	6.3	2.43	2.43	2.95	2.98	1.99	4.2	4.2	1.51	1.12	0.95	0.95	1.92		4.35	1.5	4.8	4.8		3.94	8.93	1.24	6.83	1.02	1.12	
	ORF SEQ ID NO:		25606	25822	26273	26528	26529	27204	28505	28506	28792		25201	25198	25199	25210	19868	22728	22729	23340		27038	20969	27165	27166		1		20791	21288	21528	22606	
	Exan SEQ ID NO:	14824	15524	15709	16120		16357		18254	l		19578	19305	19302		19335	10053	12936	1	13554		16846	11120	16973	16973	1000	080/	18744	10946	11431	11657	12811	
	Probe SEQ ID NO:	4947	5609	5804	6254	6498	6498	733	8377	8377	9135	9355	9743	9792	9792	9835	89	3008	3008	3640		6969	1211	7096	7096	70.40	8	8836	1028	1526	1758	2884	

Page 253 of 413 Table 4 Single Exon Probes Expressed in Heart

		T	$\overline{}$	_	_	_	-	_	_	-,-	-	_	_	-	_		_	_	_	_		-	_	_		-	_						
	Top Hit Descriptor	Homo sapiens hypothetical protein FLJ20212 (FLJ20212), mRNA	2989710.s1 Soares fetal heart NbHH19W Homo seriens cDNA clone IMAGE 400771 91	2g89f10.s1 Soares fetal heart NbHH19W Homo saniens cDNA clone IMAGE-700774 a	Homo sapiens KIAA0763 gene product (KIAA0763). mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9	H.sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9	lag33d08.s1 NCI CGAP GCB1 Homo sepiens CDNA clone IMAGE 815055 3	H.sapiens flow-sorted chromosome 6 Hindlil fragment, SC6pA14D8	Homo sapiens cadherin EGF LAG seven-pass G-type recentor 1 (CEI SR1) mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	QV4-ST0234-181199-037-105 ST0234 Homo sapiens cDNA	C18159 Human placenta cDNA (TFujiwara) Homo sapiens cDNA clone GFN-558C10 51	Homo sapiens mRNA for KIAA0350 protein, partial cds	Homo sapiens mRNA for KIAA0350 protein, partial cds	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA	Homo sapiens mRNA for PkB kinase	Homo saplens nucleoportn 88kD (NUP88), mRNA	Homo sapiens Ras association (RaIGDS/AF-6) domain family 2 (RASSF2) mRNA	Homo sapiens monoamine oxidase A (MAOA) nuclear nene encoding mitto-hondrid acciding a DNA	Homo sapiens II.2-inducible T-cell kinase (TK), mRNA	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds	Homo sapiens chromosome 21 segment HS21 C068	wm55g11.x1 NCI_CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2439908 3/	no83f02.r1 NCI_CGAP_Pr1 Homo saplens cDNA clone IMAGE:745947 similar to gb:Y00361 60S RIBOSOMAL PROTEIN (HUMAN):	Homo sapiens chromosome 21 segment HS21C078	CM3-BT0595-190100-072-a09 BT0595 Homo saplens cDNA	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA	UI-H-BI1-abq-a-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE-27124823'	UI-H-BI1-abq-a-02-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3/	Homo sapiens mRNA for KIAA0717 protein, partial cds
ole in the second	Top Hit Database Source	NT	EST HUMAN	EST HUMAN	LN.	NT	NT	FN	EST HUMAN	TN	N	TN	EST_HUMAN	EST HUMAN	NT	NT	NT	L	NT	NT	IN	L	LN.	NT	NT	EST_HUMAN	EST HUMAN	LS.	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT
;	Top Hit Acession No.	8923201 NT	4A722878.1	4A722878.1	7662289 NT	7662289 NT	K15533.1	(15533.1	4A465170.1	278698.1	11418322 NT	11430460 NT	W816405.1	218159.1	\B002348.2	\B002348.2	11418185 NT	/15056.1	11426985 NT	11421160 NT	4557734 NT	5031810 NT	8.0E-63 AF198349.1	\F198349.1	8.0E-63 AL163268.2	1872137.1	6.0E-63 AA420803.1	L163278.2	W750372.1	W 750372.1	4.0E-63 AW134709.1	4.0E-63 AW134709.1	П
	Most Similar (Top) Hit BLAST E Value	1.0E-62	1.0E-62 AA72287	1.0E-62 AA72287	1.0E-62	1.0E-62	1.0E-62 X15533.	1.0E-62 X15533.1	1.0E-62 AA46517	1.0E-62 Z78698.1	1.0E-62	1.0E-62	9.0E-63 AW8164	9.0E-63 C18159.1	9.0E-63 AB00234	9.0E-63 AB00234	9.0E-63	9.0E-63 Y15056.1	9.0E-63	9.0E-63	8.0E-63	8.0E-63	8.0E-63	8.0E-63 AF198349	8.0E-63	7.0E-63 AI872137	6.0E-63 /	4.0E-63 AL163278	4.0E-63 AW75037	4.0E-63 AW 75037	4.0E-63	4.0E-63	3.0E-63
	Expression Signal	1.32	2.17	2.17	1.53	1.53	1.81	1.81	2.81	2.13	1.94	2.3	2.14	1.51	7.42	7.42	6.51	1.31	4.39	1.37	1.52	2.17	3.81	3.81	3.37	1.78	40.61	96.0	2.86	2.86	2	2	1.97
	ORF SEQ ID NO:	24108	26251	26252	27310	27311	27331	27332	27507	28845		25206	20109		23638	23639	29106	25104	26281	26917	22077	22102	23134	23135	23843			23001	25905	25906	28611	28612	21666
	Exon SEQ ID NO:	14321	16102	16102	17116		. !	17139	17300			- [}		_	ı			[16724	12178	12203	13332	13332	14068	10837	15196			15785	18347	18347	11788
	Probe SEQ ID NO:	4426	6236	6236	7238	7239	7262	7262	7512	8673	9623	9815	335	2297	3955	3955	5210	5354	6262	6845	2296	2322	3415	3415	4168	913	5274	3279	5879	5879	8474	8474	188

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
2753	12615	22506	1.34	3.0E-63	3.0E-63 J00310.1	NT	Human Met-tRNA-i gene 1
2791	11127	20978	8.97	3.0E-63	N 8965009	NT	Homo sapiens zinc finger protein 144 (Mel-18) (ZNF144), mRNA
5896	15802	25926	27.69	3.0E-63	11545810 NT	N-	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA
7697	17448	27663	1.82	3.0E-63	3.0E-63 BE876158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3888263 5'
7597	17448	27664	1.82	3.0E-63	3.1	EST HUMAN	601485656F1 NIH_MGC_69 Homo saplens cDNA clone IMAGE:3888253 5'
184	10156	19972	1.11	2.0E-63	2.0E-63 U07804.1	N F	Human DNA topoisomerase I mRNA, partial cds
191	10163	19980	1.74	2.0E-63	4885226 NT	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
489	10432		1.39	2.0E-63	4557624 NT		Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
808	10738	20583	5.29	2.0E-63	7657042 NT	M	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
1547	11452	21312	2.47	2.0E-63		NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1547	11452		2.47	2.0E-63	2.0E-63 AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
3119	13044	22841	1.68	2.0E-63	4502166 NT	Į.	Homo sapiens amyold beta (A4) precursor protein (protease nexin-il, Alzheimer disease) (APP), mRNA
3248	13171	22970	1.78	2.0E-63	-	N N	Homo sapiens chromosome 3 subtelomeric region
3831	13743	23535	1.86	2.0E-63	2.0E-63 L39891.1	NT	Homo sapiens polycystic kidney disease associated protein (PKD1) gene, complete cds
4760			1.13			NT	Homo saplens Jun dimertzation protein gene, partial cds; cfos gene, complete cds; and unknown gene
5587	15502	25578	2.45			$\overline{}$	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
5587	15502		2.45		2.0E-63 BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
							Human germline T-cell receptor beta chain Doparnine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9SS1A1T, TCRBV7S1A1N2T, TCRBV5S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T,
6025	15929		1.37	2.0E-63	U66059.1	5	TCRBV13S9/13S>
0700		20102	1	2.05-63	1 1 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L	Hours sapiens Carbonic anniverses related protein 10 (LOC30834), mixiva
696A	1		28	2.05-00	2.0L-50	12	Home capiens chromosome 21 coment HS210010
8120	1 _		12 54	2 OF 63	!	EST HIMAN	zb18b05.s1 Sceres_fetal_lung_NbHL19W Home sapiens cDNA clone IMAGE:302385 3' similar to cb-X17206.40S RIROSOMAI DEOTEIN S4 (HI MAN):
8154			3.02	2.0E-63	0.1	Z	Homo sapiens neurexin III-alpha gene, partial cds
8154	18042	28293	3.02	2.0E-63	0.1	N	Homo sapiens neurexin III-alpha gene, partial cds
9243		25058		2.0€-63	· 11418185 NT	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
9864					11418157		Homo sapiens calcium channel, voltage-dependent, alpha 11 subunit (CACNA11), mRNA
4246	14146	23918	2.91		1.0E-63 F08485.1	EST_HUMAN	HSCZVD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11

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onige Exoli Flobes Expressed in Heart	Top Hit Descriptor	HSCZVD111 normelized infent brain cDNA Homo semiens - DNIA cland a material	QV0-ST0215-060100-083-b09 ST0215 Homo senions CDNA	Homo sablens chromosome 21 segment HS210047	Horno sapiens chromosome 21 segment HS21 Ch07	tm50b07xf NCI CGAP Ki411 Home sariens chiNA cicro MAACE GASARDS	601155232F1 NIH MGC 21 Homo saplens china lika GE-242022 E	601508968F1 NIH MGC 71 Homo sapiens cDNA clone INA GE-201083 5	Homo sapiens Ran GI Pase activating protein 1 (PANICAD1) PRINA	V698b02,r1 Strategene lung (#037210) Home spriens CNN class IMACE 2022 2	601311455F1 NIH MGC 44 Homo sapiens Chiva clane IMACE 2522204 F1	Homo sabiens thimet oliconentidase 1 (THODA) wonta	Homo sabiens thimefolionentidase 1 (THOD4) PAIA	Homo sabiens EWS dar22 and ham 22 months	w651e07.xf NCI CGAP GC6 Homo senions cDNA clara MACE concerns at	GLUCURONIDASE PRECURSOR (HUMAN);	wb51e07.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETAGLUCURONIDASE PRECI IRSOD (MI IMAM):	wy/3e03.xf NCI CGAP Bro23 Home sanions close MA Close MA CE CERA CO	WV13e03 x1 NCI CCAP From centions CONT CHIEF From	Homo sapiens MCP-1 gene and enhancer region	Homo sapiens MCP-1 gene and enhancer region	Homo sapiens brotein kinase C beta-II hane (PRKCR1) mRNA complete and	Homo sapiens mesenchyme homeo box 1 (MEOX1) mRNA	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA	Homo sapiens progressive ankylosis-like protein (ANK) mRNA complete cds	trkC [human, brain, mRNA, 2715 nt]	Homo sapiens stromal antiden 3 (STAG3) mRNA	Homo sapiens stromal antigen 3 (STAG3), mRNA	Homo sapiens Interleukin 10 receptor, beta (IL10RB), mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds	
JIE EXOII PIO	Top Hit Database Source	EST HUMAN	EST HUMAN	NT	N.	EST HUMAN	EST HUMAN	EST HUMAN	N-	EST HUMAN	EST HUMAN	L L	IN	NT		EST_HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	N L	N	NT	L	NT	TV	N.	INT	F	ト	5	NT	NT	NT	NT	
110	Top Hit Acession No.	1.0E-63 F08485.1	AW 582266.1	AL163247.2	AL163207.2	86.1	796.1	755.1	11418177 NT		321.1	4507490	45074901NT	-		6.0E-64 AI651992.1	6.0E-64 AI651992.1	-		T			11525879 NT	11525879 NT	11420555 NT	53.1	1	11420197 NT	11420197 NT	11526198 NT		19.1	+	L40933.1	
	Most Similar (Top) Hit BLAST E Value	1.0E-63	1.0E-63 AW 58;	1.0E-63 AL163;	1.0E-63 AL163;	9.0E-64 AI4781	8.0E-64 BE2807	8.0E-64 BE885	8.0E-64	8.0E-64 T5065	7.0E-64 BE394	7.0E-64	7.0E-64	7.0E-64 Y07848		8.0E-64	6.0E-64	6.0E-64 /	6.0E-64	6.0E-64 Y18933.1	6.0E-64 Y18933.1	6.0E-64 M13975	6.0E-64	6.0E-64	6.0E-64	6.0E-64 AF2747	6.0E-64 S76475.	6.0E-64	6.0E-64	6.0E-64	5.0E-64 A	5.0E-64 A	5.0E-64 L40933	5.0E-64 L	
	Expression Signal	2.91	1.39	2.3	3.02	4.78	7.89	3.16	2.61	2.56	0.99	2.44	2.44	2.13		1.7	1.7	3.7	3.7	2.64	2.64	4.41	2.58	2.58	7.8	2.06	2.34	7.57	7.57	4.08	2.44	2.44	2.42	2.42	
	ORF SEQ ID NO:		25509			26661		25747					24304	27844		21463	21464	22801	22802	25433	25434	25444	26312	26313	27451	27538	27669	28287	28288	25321	20574	20575	21167	21168	
	Exon SEQ ID NO:	14145	15443	16813	19633	16471	10948	15641	18841	18875	13402	14513	14513	17616		11594	11594	13011	13011	15375	15375	15384	16157	16157	17245	17332	17455	18039	18039	18967	10732	10732	11307	11307	
	Probe SEQ ID NO:	4246	5526	6935	9879	6591	1030	5733	9050	9111	3486	4625	4625	7766		1692	1692	3084	3084	5454	5454	5464	6283	6283	/3/6	7472	\$	8151	8151	3262	8	88	1402	1402	

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Table 4
Single Exon Probes Expressed in Heart

SEQ ID DNC: Signal Most Similar Top-Hit Acession Top-Hit Top-Hit Acession Top-Hit			\neg		7	_	_		_			~		-,	_	_				, -				· .,	-			<u></u>				٠.		
Expn ORF SEQ Expression or Crop Ht Top Ht Top Ht Acession or Crop Ht 11586 21457 1.67 50E-64 UB8388.1 NT 11370 21235 2.66 5.0E-64 December of Top Ht Acession or Crop Ht December of Top Ht 11370 21235 2.66 5.0E-64 December of Top Ht Acession or Crop Ht NT 11370 21236 2.66 5.0E-64 December of Top Ht Acession or Crop Ht NT 11370 21236 2.66 5.0E-64 December of Top Ht Acession or Crop Ht NT 11370 21236 2.66 5.0E-64 December of Top Ht Acession or Crop Ht NT 18074 22824 3.9 4.0E-64 AVB13783.1 EST HUMAN 13313 23112 1.51 3.0E-64 AVT11714.1 EST HUMAN 16811 27016 1.51 3.0E-64 AP48953.1 NT 16814 27016 1.3 3.0E-64 AP48953.1 NT 16824 27016 1.2 3.0E-64	es cypressed in near	Top Hit Descriptor	Human ((3)mbt protein homolog mRNA, complete cde	Homo sapiens KIAA0618 gene product (KIAA0618) mRNA	Homo saplens KIAA0618 gene moduct (KIAA0618) mBNA	Homo sapiens butative transcription factor (PRS2 (CRS2) mDNA metal. J.	RC3-ST0197-120200-015-a03 ST0197 Home samiens c/DNA	RC3-ST0187-120200-015-803 ST0197 Homo sanlens cDNA	C18895 Human placenta cDNA (TFuïwara) Homo saniens cDNA clone CEN 550502 5	601589565F1 NIH MGC 7 Home sepiens CDNA clone IMAGE 3048577 E	AV711714 DCA Home saplens cDNA clone DCA AAACA4 8'	AV711714 DCA Homo sapiens cDNA clone DCAAMON 5'	H.saplens isoform 1 dene for I - three calculum channel axim 20	RC6-FN0019-290600-011-G11 FN0019 Home capient CANA	Homo sapiens goldi matrix protein GM130 (GO) GA21 mPNA commutata	Homo saplens gold matrix protein GM130 (GOL GA2) mBNA complete cas	bb/2h12.y/ NIH_MGC_12 Homo sepiens cDNA clone IMAGE:3047975 6' similar to gb:1.08069 DNAJ PROTEIN HOMOLOG 2 / HI MAAN):	bb72h12.y1 NIH MGC 12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ	TRO EIN HUMOLOG Z (HUMAN);	Hamp septions of common 21 segment HS210046	Towns services of the contract	Homo saniens chromosome 21 segment NSZTOU48	domo sapiens chromosome 21 segment IDS/2007	af09d08.51 Soares tastis. NHT Homo saniens CDNA close IMAGE Angusta 21	Homo saplens ell'4E-like cap-binding protein (4EHP) mRNA	wo87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element	-1 repetitive element;	dano sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21C046	domo saplens glutamic-oxalcacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2),	notes gene encoding miconordrap protein, mkNA	STATOAR MACE resequences, wave from sapiens cDNA	AU124387 NT2RM2 Home sapiens CDNA chare NT2RM2 nome sapiens cDNA	G GI I NATANTA TATA CANTA
Exon NO: ORF SEQ Signal 11370 Expression Signal 21285 (Top) Hit Signal 21380 Top Hit Acess 1.67 Top Hit Acess 1.67 Top Hit Acess 1.67 No. 11370 21285 2.66 5.0E-64 7662 12038 21836 3.9 4.0E-64 AW813783.1 13314 22943 0.95 3.0E-64 AF748985.1 13313 22112 1.51 3.0E-64 AF748983.1 16811 27005 1.81 3.0E-64 AF748983.1 16812 27016 1.3 3.0E-64 AF748983.1 16824 27016 1.3 3.0E-64 AF748983.1 16824 27017 1.3 3.0E-64 AF748983.1 17289 27499 1.26 3.0E-64	פום ובעמון בומו	Top Hit Database Source	NT	TN	N _T	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	EST HUMAN	N	LN L	EST HUMAN		ESI_HUMAIN	LN	MT	TN	NT	EST HUMAN	N		EST_HUMAN	2	LN L	L.	T HI IMANI	Т	T	7
Expn NO: ORF SEQ ID NO: Expression Signal (T) Mos Signal Mos Signal		Top Hit Acession No.	U89358.1			lΔ	AW813783.1	AW813783.1	C18895.1	BE794381.1	AV711714.1	AV711714.1	72627	BF370	AF248953.1	AF248953.1	BE206521.1	DE DORFOL	Ţ			Γ	Γ		10776					450406R	145 1	145.1		1
Exon SEQ ID ID NO: Signa NO: 11586 11370 21236 11370 21236 13787 23675 18074 28324 18074 28325 13313 23113 15611 27005 16811 27005 16811 27005 16814 27017 17289 27497 17289 17289 27497 17289 27497 17289 27497 17289 27497 17289 1		Most Similar (Top) Hit BLAST E Value	5.0E-64	5.0E-64	5.0E-64	5.0E-64	4.0E-64	4.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3.0E-64	3 00 8	3.0E.64	3.0F-64/	3.0F-64	3.0E-64	3.0E-64/	2.0E-64	2.0E-64		2.0E-64 P	Z-04 /	2.0E-64	2.0E-64	20E-64	2.0E-64 A	2.0E-64 A	
Exen SEQ ID NO: NO: 11585 11585 11370 1370		Expression Signal	1.67	2.66	2.66	5.61	3.9	3.9	3.85	0.95	1.51	1.51	1.34	3.39	1.81	1.81	1.3	,	1 26	1.26	1.76	1.76	4.59	0.94	1.32	,	303	20.5	3.03	2.56	1.33	1.33	2.62	
		ORF SEQ ID NO:											25713	25942	27005	27006	27016	27012	27497	27498	28703	28704	29040	20831	21137	-	22252	The state of the s	22253	22823	23416	23417	25662	
Probe SEQ ID NO: NO: 1683 2796 2706 3806 8188 8188 8188 8188 8188 8565 8565 856		Exen SEQ ID NO:	11585	11370	11370	13787	18074	18074	12039	13140	13313	13313	15611	15817	16811	16811	16824	16824	17289	17289	18434	18434	18746	10988	11282	10057	12350		1230	13027	13631	13631	15565	
		Probe SEQ ID NO:	1683	2796	2796	3876	8188	8188	2151	3216	3396	3396	5703	591	6933	6833	6946	6946	7422	7422	8565	8565	8938	1072	1376	2478	2484		7404	3101	3719	3719	5653	

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Table 4
Single Exon Probes Expressed in Heart

TYPI I JOSE TAPIESSEU III NEBIL	Top Hit Descriptor	Homo sapiens andiopoletin 4 (ANG4) mRNA partial cals	602123474F1 NIH MGC 56 Home sanians CDNA close MACE: 4286305 ET	oz29b03.X1 Soares total fetus Nb2HF8 Ow Home serions ADNA -1	H. Sabiens dobarnine recentur D.5 neer downs 1 neeting An	602042882F1 NCI CGAP BING? Home seniors abala de la la la constanta de la cons	Wn81b06x1 NCI CGAP 11th Homo carriene contact and a contac	wn81b06.x1 NCI CGAP Utf Home saniers cDNA close INA CE:2452211 3	Homo saplens period (Drosonhila) homology 3 (PEP2) TONA	CHR220101 Chramasome 22 evon Home senions of M. Aless Con 100 m	Homo sapiens chromosome 21 unknown mRNA	au60c01xt Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to gb:L21696 cds1 PROTHYMOSIN ALPHA (HI IMAN) ronteins element McE4	Homo sapiens transcription factor IGHM enhancer 3, M111 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation denorates and the second of the s	complete cds: and L-trae calcium channel a>	Homo sapiens TRIAD3 mRNA martial cde	Homo sapiens TRIAD3 mRNA nartial cde	Homo sablens chromosome 21 segment US2/Co46	Hisabiens DNA for endonemore retwird like allowant	H. sablens DNA for endorancies retroviral like alamant	QV4-BT0257-081199-017-e03 BT0257 Home seniens child	au58h07.x1 Schneider fetal brain 00004 Homo sapisars cDNA clone IMAGE:2519005 3' similar to SW:RL21 HUMAN P46778 605 BIBOCOMAN PEDCTEM 104	OV2-BT0685-240400-462-672 BT0835 Hzms majors - PNIA	AV721898 HTB Homo sapiens cDNA clone HTBRZCDR 5'	ng6d10.s1 NCI_CGAP_Pr11 Homo saptens cDNA clone IMAGE:999379 similar to gb:K03002 60S RIBOSOMAL PROTEIN L32 (HUMAN):	xc07b09.x1 NCI_CGAP_Co21 Homo sepiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306	Reliable Society of the FILLINE DNA CONTAINING 7 ORFS. ;contains L1.b2 L1 repetitive elen	Ansological Societies from Supervisor Suprementation of the IMAGE:7737473'	20032000.51 Solares, total refus, Nb2HPB 9w Home sapiene cDNA clone IMAGE:773747 3'	Hamo sapiens chromosome 21 segment HS247044
ופוט ביווועד סופו	Top Hit Database Source	FN FN	EST HUMAN 6	T		T HUMAN	HUMAN	HUMAN		T HUMAN	Т	EST_HUMAN gl	工与	N N		Ĭ.				T HUMAN		Т	T	EST_HUMAN RI	SX XX	Т	Т	Т	Т
	Top Hit Acession No.	2.0E-64 AF113708.1				_	_	-	3567387		1.0E-64 AF231919.1	1.0E-64 Al929419.1		1.0E-64 AF196779.1	+:	ļ	2			-	_			+	Ţ				
	Most Similar (Top) Hit BLAST E Value	2.0E-64	2.0E-64	2.0E-64 AI078387	2.0E-84	2.0E-64	2.0E-64 AI922911	2.0E-64 Al922911.	2.0E-64	2.0E-64 H55162.1	1.0E-64 /	1.0E-64		1.0E-64	1.0E-64 AF228527	1.0E-64 AF228527	1.0E-64 AL 163246	9.0E-65 X89211.1	9.0E-65 X89211.1	9.0E-65 BF330676	8.0E-65 A1929244.	7.0E-65 BE081653	6.0E-65 AV721898.	6.0E-65 AA550929.	6 0F-65 AW083252	6.0E-65 AA427878	6.0E-65 AA427878	6.0E-65 BE567816.	6.0E-65 AL163210.
	Expression Signal	1.3	4.97	1.31	3.86	2.85	6.4	6.4	1.73	2.68	1.74	5.88		5.61	1.32	1.32	1.62	0.93	0.93	15.1	10.83	2.05	1.52	8.32	252	4.25	425	6.18	4.76
	ORF SEQ ID NO:		25938	26004	26060	28279	28534	28535	25347		20039	21508		23188	23248	23249		22017	22018		28903	27936	20801		27150	27275	27276	28375	28892
	σ				16928	18032	18282			19195	10224	11641			13452	13452	18904	12115		18635	18613	17691	10958	11776	16957	17086	17086	18127	18602
	Probe SEQ ID NO:	6783	5906	5976	6024	8144	8406	8406	9182	9617	258	1740		3466	3536	3536	9154	2230	2230	8822	8799	7841	<u>\$</u>	1880	7080	7209	7209	8247	8787

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo saplens KE03 protein mRNA, partial cds	Homo sapiens KIAA0156 gene product (KIAA0156) mRNA	Homo saplens KIAA0156 gene product (KIAA0156) mRNA	Homo sapiens hPAD-colony10 mRNA for peptidylargining deiminase type I complete cdc	Homo sapiens ubiquitin specific protease 13 (isopertidase T-3) (USP13) mRNA	Homo sapiens ubiquitin specific protease 13 (Isopentidase T-3) (1)SP13) mRNA	DKFZp761G108_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5	gm46e01.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens.cDNA cinne IMAGE-1864800 2	am46e01.xf Soeres placente Broweeks 2NhHDRhoW Home contents AND 2000 1000 1000 1000 1000 1000 1000 100	Homo saciens fracile X mental retendation a mineral control of the Control of the	Homo sapiens ribosomal protein 34 (RP) 34) mRNA	hu25e04.x1 NCI CGAP Mel/15 Home septems cDNA clone IMAGE:3174402.31	hu25e04.x1 NCI CGAP Mel15 Homo sapiens cDNA clone IMAGE-3171102 3	Homo sapiens low density lipoprotein receptor related protein-deleted in timer (1 POCITY - MONA)	Homo sapiens low density lipoprotein receptor related profein deleted in himse (LDDD) TT DNA	Homo sapiens mRNA for KIAA1267 protein, partial cds	Homo sapiens mRNA for KIAA1267 profein	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA	Homo saplens WEE1 dene for protein kinase and martial 7NE143 mane for airc finance transmission.	Homo sapiens PRO1474 mRNA, complete cds	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1) mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	H. sapiens HZF9 mRNA for zinc finger protein	ov23f03.s1 Soares_testis_NHT Homo saplens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element:	Homo sapiens laminin, beta 1 (LAMB1), mRNA	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element MSR1 repetitive element;	Homo sepiens rab6 GTP as a activating profesion of the Contraction of	601479686F1 NIH_MGC_68 Homo saplens cDNA clone IMAGE:3882405 5
Jie Exon Prot	Top Hit Database Source	TN	NT	LN	N.	F	L	EST_HUMAN	EST_HUMAN	EST HUMAN	LZ	M	EST HUMAN	EST HUMAN	F	IN	NT	LN	TN	TN	N _T	FX	L	NT	EST HUMAN	LL	EST_HUMAN		T_HUMAN
Sin	Top Hit Acession No.	5.0E-65 AF064604.1	7661951 NT	7681951 NT	AB033768.1	4507848 NT	4507848 NT	AL120419.1	A1266468.1	AI268468.1	4826735 NT	4506636 INT	9.1	69.1	9055269 NT	, 9055269 NT	93.1	3.1	1545780	4.0E-65 AJ277546.2	4.0E-65 AF119846.1	4826735 NT	11430460 NT	1	3.0E-65 Alggo692.1	4504950 NT	2.1	6912385 NT	3.0E-65 BE787366.1
	Most Similar (Top) Hit BLAST E Value	5.0E-65/	5.0E-65	5.0E-65	5.0E-65 AB033	5.0E-65	5.0E-65	4.0E-65 AL120	4.0E-65 Al2664	4.0E-65 AI2684	4.0E-65	4.0E-65	4.0E-65 BE2214	4.0E-65 BE2214	4.0E-65	4.0E-65	4.0E-65 AB0330	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-65	4.0E-65	3.0E-65 X78932	3.0E-65 A	3.0E-65	3.0E-65 A100069	3.0E-65	3.0E-65
	Expression Signal	0.91	1.62	1.62	1.02	1.91	1.91	1.09	1.56	1.56	1.88	8.28	1.03	1.03	0.95	0.95	3.93	3,93	2.29	2.17	7.47	1.34	1.58	5:37	1.14	1.39	0.98	1.41	1.43
	ORF SEQ ID NO:	20362	21094			22944	22945	19975	20491	20492	22802		22068				25754	25755	26304		28579	20822	25152		21557	22962	23361	24228	27876
	Exan SEQ ID NO:	10551	11238			13141	13141	10158	10660	10860	10978	11375	12171			15005	15648	15648	16149	17870	18320	10978	19434	12646	11679	13162	13574	14444	17643
	Probe SEQ ID NO:	615	1331	1331	2110	3217	3217	186	728	728	1062	1470	2288	2288	5138	5138	5740	5740	6285	8020	8446	9471	9975	1212	1780	3239	3660	4551	7793

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Single Exoli Probes Expressed in Heart	Top Hit Database Source	EST_HUMAN zw65a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'	HUMAIN	Г	EST_HUMAN 602134359F1 NIH_MGC_81 Homo septens cDNA clone IMAGE:4289295 57	NT Homo sapiens mRNA for FLJ00056 protein, partial cds	NT Homo sapiens mRNA for FLJ00056 protein, partial cds	Horno sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA	EST178755 Colon carcinoma (HCC) cell line Homo sepiens cDNA 5' end similar to similar to endogenous retroduis	Т	HUMAN		NT Homo sapiens mRNA for KIAA1513 protein, partial cds	EST_HUMAN hzz4a09.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:3208888 3'	NT Homo sapiens glypican 4 (GPC4) mRNA	NT Homo sapiens glypican 4 (GPC4) mRNA	T HUMAN						EST_HUMAN 602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5	EST_HUMAN AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5	T_HUMAN	NT Homo sepiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA		EST_HUMAN AU153793 NT2RP3 Homo saplens cDNA clone NT2RP3004016 3'	Г		111111111111111111111111111111111111111
lle Exon Probes Expressed in Heart	Top Hit Database Source	Т		Г	HUMAN					HUMAN	HUMAN						T HUMAN							Г	T_HUMAN			Т	Г		
Billo	Top Hit Acession No.	1.0	Σ.	3.1		2.0E-65 AK024463.1	1	11419247 NT		-	Ξ.	7657495	1.0E-65 AB040946.1	-:	4504082 NT	4504082 NT	1.0E-65 AW029340.1	1.0E-65 AW029340.1				1.1	1.1	7.	1.0E-65 AU129040.1	11431994 NT	1.0E-65 Ai191716.1	7.7		4506660 NT	
	Most Similar (Top) Hit BLAST E Value	3.0E-65	2.0E-65 BF680294	2.0E-65 BE26337;	2.0E-65 BF576922	2.0E-65	2.0E-65/	2.0E-65	2.05-65	2.0E-65 BF246086	1.0E-65 BF125544	1.0E-65	1.0E-65	1.0E-65 BE46668	1.0E-65	1.0E-65	1.0E-65	1.0E-65 /	1.0E-65)	1.0E-65	1.0E-65 /	1.0E-65	1.0E-65 BF698707	1.0E-65 AU129040	1.0E-65	1.0E-65	1.0E-65/	1.0E-65 AU15379	1.0E-65 M26167.1	1.0E-65	1000000
	Expression Signal	9.69	5.27	4.55	23.12	1.27	1.27	2.85	4.15	2.37	1.06	1.32	0.91	0.89	2.13	2.13	2.37	2.37	1.58	1.68	2.38	2.38	1.76	1.62	1.62	2.83	9	1.25	2.23	12.99	3
	ORF SEQ ID NO:	28119	23078		26247		27203	28189				20282	21781	23052	23606	23607	23789	23790	26870	26871	26914	26915	27201	27282	27283		27469	27763	28181		97500
	Exan SEQ ID NO:	17877	13277	15843	16099	17010	17010	17939	18874	19504	10069	10470	11888	13246	13826	13826	14012	14012	16681	16681	16721	16721	17009	17092	17092	17099	17265	17537	17933	18046	90000
	Probe SEQ ID NO:	8693	3358	5938	6233	7133	7133	8048	9109	9580	82	528	1994	3326	3917	3917	4112	4112	8802	6802	6842	6842	7132	7215	7215	7222	7456	7687	8042	8158	0/1/0

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Top Hit Descriptor	ts76a06.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2237170 3' similer to gb:L15533_ma1 PANCREATITIS ASSOCIATED PROTEIN 1 PRECI IRSOD (14) MAANY.	Homo saplens TNF-Inducible protein CG12-1 (CG12-1) mRNA	Homo sapiens cadherin EGF LAG seven-bass G-troe recentor 1 (CEI SR4) mRNA	Homo sapiens sulfotransferase-related protein (SULTX3) mRNA	Novel human gene mapping to chomosome 22	Novel human gene mapping to chomosome 22	Homo sapiens 26S protessome associated padd homolog (POH4) mRNA	Homo sapiens 26S professome-associated pad1 homolog (POH1) mRNA	Human transposon-like element, partial	Human calcium-dependent phospholipid-hinding protein (PI A2) mRNA	Human calcium-dependent phospholinid hinding protein (PI A2) m DAA	zv90c05,r1 Soares NhHMPu S1 Home saniens chiNA chose liva CE-7227049 Et	RC4-BT0311-141199-011-h06 BT0311 Homo seniens cDNA	wn57h07x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A CE18595;	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A CE18595;	wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP:F15G9.4A CE18595 :	H.saplens mRNA for ribosomal protein 134	RC4-BT0311-141189-011-h06 BT0311 Homo saniens cDNA	Homo sapiens thyroid hormone receptor binding protein (AIB3) mRNA	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1) mRNA	H.sapiens DNA for endogenous retrovital like element	Homo sapiens germ-line DNA upstream of Jkappa locus	Human endogenous retrovirus, complete genome	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase (MTHED2) mRNA	QV1-DT0069-110200-067-410 DT0069 Home stanions -DNA	EST377546 MAGE resequences. MAGI Homo saniens cDNA	Homo sapiens cAMP-regulated guanine nucleotide exchange factor 174000 CERN COLORS	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
Top Hit Database Source	EST HUMAN	l			- LN	- LN					Z	EST HUMAN	EST HUMAN		EST HUMAN	EST HUMAN	Т	EST HUMAN			Z		Į.		T HUMAN	T		
Top Hit Acession No.	4 621017.1	11418041 NT	11418322 NT	11418248 NT	9.0E-66 AL160311.1	11.1	5031980 NT	5031980 NT	۵	3.1	9.0E-66 M72393.1	-	110.1	6.0E-66 AI924653.1	6.0E-68 Al924653.1	33.1	1	5.0E-66 BE064410.1	11420557 NT	6679816 NT	.1	64.1	9635487	11428643INT	119.1	473.1	-	11421638
Most Similar (Top) Hit BLAST E Value	1.0E-65 AI6210	1.0E-65	1.0E-65	1.0E-65	9.0E-66	9.0E-66 AL160	9.0E-66	9.0E-66	9.0E-66 M8729	9.0E-66 M7239	9.0E-66	8.0E-66/	7.0E-66 BE0644	6.0E-66	6.0E-66	6.0E-66 A19246	6.0E-66 X69181	5.0E-66	5.0E-66	4.0E-66	4.0E-66 X89211	4.0E-66 AJ2233	4.0E-66	4.0E-66	4.0E-66 AW 939	4.0E-66 AW965	4.0E-66 U78168.	4.0E-66
Expression Signal	2.35	227	4.85	1.44	1.51	1.51	2.49	2.49	4.18	6.0	6.0	0.88	1.73	1.22	1.22	1.22	70.7	2.25	12.31	0.79	1.94	3.66	5,15	3.35	1.78	4.71	6.89	6.38
ORF SEQ ID NO:	28681		25318				21096	21097		23529	23530	24266		23944	23945	23946	28636	21107	27424	20542	22022			25376	25494	24869	26246	26776
Exan SEQ (D NO:	18414					- 1	ı	11239	11373	13738	13738	14479	18543	14168	14168	. 14168	18372	11250	17225	10703	12120	12302	14560	15326	15430	15106	16098	16588
Probe SEQ ID NO:	8542	9155	9254	9665	92	92	1332	1332	1468	3826	3826	4591	8654	4269	4269	4269	8499	1344	7357	133	2235	2425	4674	5407	5512	9609	6232	8029

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Top Hit Descriptor	UI-H-BW1-amr-a-10-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE-3070747 3	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein. mRNA	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein. mRNA	yz27g12.r1 Soares_multiple_sclerosis_ZNbHMSP Home sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA_P35068_HISTONE_H2B_1HA7B_2_TZP_PIR-R5643.2	yz77g12.r1 Soares_multiple_sclerosis_ZNbHMSP Homo sapiens CDNA clone IMAGE:284326 6' similar to SW:H2B1 TIGCA P35068 HISTONE H2B 1H2B 1 DIP RESERVA	yzZ7g12.r1 Soares_multiple_sclerosis_ZNbHMSP Homo saplens GNA clone IMAGE:284328 5 similar to SW:H2B1 TIGCA P35068 HISTONE H2R 11H2R ; 12) pnip-asses 1	Homo saplens TGF/betal-included franscription factor 2/TCIE2/ mDN/A	Homo sapiens KIAA0649 gene product (KIAA0649) mRNA	Homo sapiens NIPSNAP. C. elegans, homologia (A) MSNAP	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA	Homo sablens protein phosphatase 2 remitation entimit R (BRR) and a sablens protein phosphatase 2	Homo sapiens Misshaben/NIK-related kinase (Minik) mBNA	Homo sabiens Misshaben/NIK-related kinase Mink), mRNA	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products	Homo sabiens chromosome 21 segment HS24 C404	H.sapiens pseudogene for the low affinity II-8 recentor	Homo saplens sodium/calclum exchanger isoform NaCa3 (NCX1) mBNA	Homo sapiens HLA-B gene for human leucocyte antinen R	Homo sapiens HLA-B gene for human leucocyte antigen B	1959c02.r1 Soares multiple sclerosis 2NbHMSP Homo saniens cDNA clone IMAGE: 277828 ET	Homo sapiens G-2 and S-phase expressed 1 (GTSF1) mRNA	AV717817 DCB Homo sapiens cDNA clone DCBADC07.5	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5	AV717817 DCB Hamo sapiens cDNA clone DCBADC07 5'	AV717817 DCB Homo saplens cDNA clone DCBADC07 5
Top Hit Database Source	EST_HUMAN	IN		T HUMAN		Г	1										TN				EST HUMAN		T_HUMAN	HUMAN	HUMAN	EST_HUMAN /
Top Hit Acession No.	4.0E-66 BF507493.1	4502098 NT	4502098 NT	3.0E-66 N55323.1	3.0E-66 N55323.1		1141880	7662223 NT	11417946 NT	11417946 NT	5453949 NT	7657334 NT	7657334 NT	4505524 NT	4505524 NT			<u>-</u>	.2	2		11418318 NT	Ţ-		.1	
Most Similar (Top) Hit BLAST E Value	4.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66 N55323.1	3.0E-66	3.0E-66	3.0E-66	3.0E-66	3.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66	2.0E-66 AL163301	2.0E-66 X65859.1	2.0E-66 AF108389	2.0E-66 AJ133267	2.0E-66 AJ133267	2.0E-66 N45480.1	2.0E-66	1.0E-66 AV717817	1.0E-66 AV717817	1.0E-66 A	1.0E-66 AV717817
Expression Signal	1.96	24.62	24.62	0.84	0.84	0.84	2.91	5.47	1.64	1.64	8.3	1.02	1.02	0.93	0.93	2.02	96:0	0.86	12.69	12.69	2.16	2.22	1.38	1.38	3.26	3.26
ORF SEQ ID NO:	28193	21175	21176	21717	21718	21719	22430	22797	25511	25512	28904	19837	19838	19774	19775	21560	22669	23657	24233	24234	27205		22585	22586	22585	22586
Exan SEQ ID NO:	17943	11313	11313	11834	11834		12540			15445	18614	10033	10033	9983	9983	11682	12871	13882	14448	14448	17012	19712	12792	12792	12792	12792
Probe SEQ ID NO:	8052	1408	1408	1939	1939	1939	2675	3079	5528	6528	8800	45	45	416	416	1784	2944	3975	4556	4556	7135	9475	2864	2864	4288	4288

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				Most Similar			
Probe SEQ ID NO:	Exen SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5125	14761		2.1	6.0E-67	4507848 NT	F	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3184		22913	245	5.0E-67	5.0E-67 AF009860.1	TN	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
8352			2.1	5.0E-67	8.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1306		21069	1.83	4.0E-67		EST_HUMAN	yn02d11.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:167253 5'
6883	16762		1.22	4.0E-67	4.0E-67 BF357321.1	EST_HUMAN	RC0-HT0934-150900-026-c03 HT0634 Homo saplens cDNA
8416	18290		2.3	4.0E-67	4.0E-67 AA714294.1	EST HUMAN	nw06a01.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1238472.3' similar to TR:O10385 O10385 PRO-POL-DUTPASE POLYPROTEIN:
2782	10553	20365	0.93	3.0E-67	3.0E-67 AA333768.1	EST HUMAN	EST37903 Embryo, 9 week Homo sapiens cDNA 5 end
3407	13324	23125	1.14	3.0E-67	3.0E-67 BE064410.1	EST HUMAN	RC4-BT0311-141199-011-h06 BT0311 Homo sapiens cDNA
4596	14484	24270	3.14	3.0E-67	3.0E-67 AW869159.1	EST_HUMAN	MR3-SN0066-040500-008-f01 SN0066 Homo sapiens cDNA
6760	16639	26827	1.22	3.0E-67	3.0E-67 BF196068.1	EST HUMAN	hr81f05.x1 NCI_CGAP_Kid11 Homb sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE Q61085 GTP-RHO BINDING PROTEIN 1
8583	18451		19.27	3.0E-67	3.0E-67 AA927874.1	EST HUMAN	om18b07.s1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE-1541365.3*
180	10152	19967	1.94	2.0E-67	2.0E-67 BE348354.1	EST HUMAN	hw16g09.x1 NCI_CGAP_Lu24 Homo saplens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9 CE09617 :
827	10754	20604	9	2.0E-67		EST HUMAN	QV4-ST0234-181199-037-105 ST0234 Homo septens cDNA
1089	11005		1.74	2.0E-67	0.1	F	Homo sapiens double stranded RNA activated protein kinase (PKR) gene. excns 2a. 2. 3. and 4.
1841	11737	21614	1.5	2.0E-67	2.0E-67 BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905976 5' similar to TR:094892 094892 KIAA0798 PROTEIN.;
1841	11737	21615	1.5	2.0E-67	2.0E-67 BE303037.1	EST HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2905976 5' similar to TR:O94892 O94892 KIAA0798 PROTEIN.
2336	12216	22116	86.0	2.0E-67	2.0E-67 AF309561.1	Ę	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
2381	12261	22153	1.2	2.0E-67	4758795		Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3422	13339	23144	3.9	2.0E-67	5.1	EST_HUMAN	zu91g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392.3'
3921	- 1	23610	2.33	2.0E-67			Homo sapiens chromosome 21 segment HS21C100
5724		25734	4.22	2.0E-67		EST_HUMAN	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5
2803	15708	25820	2.17	2.0E-67	2.0E-67 AB051763.1		Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
2803	15708	25821	2.17	2.0E-67		NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
7202	17079	27264	1.34	2.0E-67	AW6026		1
7202	17079	27265	1.34	2.0E-67	AW6026		RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
8409			3.26	2.0E-67	1	1436448 NT	Homo saplens KIAA0985 protein (KIAA0985), mRNA
8558	_	28698	1.77	2.0E-67	2.0E-67 BE295714.1		601175762F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3531038 5
8751	17900	28144	2.26	2.0E-67	2.0E-67 BF377169.1		PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
9388	19577	25069	2.6	2.0E-67	11418189	1418189 NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA

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Single Exon Probes Expressed in Heart	Most Similar Top Hit Acession BLAST E No. Source Source	1.0E-67 4502166 NT Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	8.0E-68 BE870732.1 EST_HUMAN	2482h10.r1 Strategene hNT neuron (#837233) Homo sapiens cDNA clone IMAGE:648163 5' similar to 8.0E-68 AA209456.1 EST_HUMAN SW:SAV_SULAC Q07590 SAV PROTEIN;	26 8.0E-68 AA209456.1 EST HUMAN SW:SAV SULAC Q07590 SAV PROTEIN	6.0E-68 AW 503842.1 EST_HUMAN	6.0E-68 11422086 NT	6.0E-68 AF133901.1 NT	42 6.0E-68 BE612554.1 EST_HUMAN 601452067F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3855761 5	6.0E-68 BF310676.1 EST_HUMAN	5.0E-68 AF231919.1 NT	37 5.0E-68 AF231919.1 INT Homo sapiens chromosome 21 unknown mRNA	5.0E-68 AF231919.1	37 5.0E-68 AF231919.1 NT Homo sapiens chromosome 21 unknown mRNA	5.0E-68 AB03785	11 4.0E-68 11421398 NT Homo sapiens transcription factor NRF (NRF), mRNA	4.0E-68 11421388 NT	4,0E-68 P04406 SWISSPROT	4.0E-68 11055991 NT	4.0E-68 11055991 NT	4.0E-68 D63479.2 NT	4.0E-68 D63479.2 NT	4.0E-68 AB040918.1	31 3.0E-68 AF236082.1 NT Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds		3.0E-68 Al342323.1 EST HUMAN	3.0E-68 F28784.1 EST_HUMAN		2.0E-68 D00522.1 NT	2.0E-68 AB008681.1	8 2 DE-68 RASORS 1 FECT HIMAN INTERNATIONAL Plant From TAILE Home committee of the Action of the Contract of t
"	Top Hit Acessi No.	45021	BE870732.1	AA209456.1	AA209456.1	AW 503842.1	114220	AF133901.1	BE612554.1	BF310675.1	AF231919.1	AF231919.1	AF231919.1	AF231919.1	AB03785	1	1	P04406	1	1	D63479.2	D63479.2	AB040918.1	AF236082.1		Al342323.1	F28784.1	AW939485.1	D00522.1	AB008681.1	DAENOD A
	Most Similar (Top) Hit BLAST E Value								6.0E-68		5.0E-68	5.0E-68				4.0E-68						4.0E-68		3.0E-68							200 200
	Expression Signal	4.37	2.46	4.96	4.96	22	2.46	1.93	1.42	1.36	0.87	0.87	3.87	3.87	2.62	1.01	1.01	17.24	5.64	5.64	5.41	5.41	2.39	5.61		4.44	1.45	1.53	12.26	1.66	a
	ORF SEQ ID NO:	20036	21915	23492	23493		28064	28627		25178		20556	20572	20573			22248		26188		27290	l		23312			28088			24261	
	Exan SEQ ID NO:	10219	12017	13706	13706	11745	17821	18362	19234	19391	12642	12642	10731	10731	13034	12356	12356	14780	16044		17102	17102	17171	13525		16454	}	l	_1		16004
	Probe SEQ ID NO:	253	2129	3794	3794	1849	7971	8489	9676	9918	785	785	802	802	3108	2480	2480	4900	6061	6061	7225	7225	7295	3611	i	7441	7997	9872	2832	4583	6110

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	┱		_	\neg	_		_	- 1	_	_		_	_		_	_		_		**	-	-			-							٠,
Top Hit Descriptor	601458514F1 NIH MGC 66 Homo septems cDNA close MAGE:3862034 E	601437367F1 NIH MGC 72 Homo seniens cDNA clone IMA CE 3023432 E1	Homo sapiens meningloma (disningted in helenced transforction) 4 (ANA) — DAYA	QV4-ST0234-181199-037-605 ST0234 Home canions of NAA	Homo sapiens mRNA for KIAA0577 pmfein commissional	Homo sapiens mRNA for KIAA0577 protein, complete cas	ULH-BI3-BIK-5-04-0-111 st NCI CGAP Subst Home continue CAS	601177002F1 NIH MGC 17 Home seniers CDNA close IMA/OF-26224 FF	847012.81 Soares NF T GRC S4 Home seniors why demanders and seniors of	Homo sablens cell recognition molecule Caser 2 (KTAA0888) TONIA	Homo sapiens phosphodiesterase 78 (PDE7R) - MBNA	Homo sapiens phosphodiesterase 78 (PDF7R) mRNA	Homo sapiens MIP2 subressor (HSMT3) mRNA complete ada	Homo sablens meningioma (discrimted in behanced translesses, 17 (1814)	Homo sapiens low density linnurdein-related protein 2 (1 DDs)	Home sensions are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours and are all colours are all colours and are all colours are all colours and are all colours are all colours and are all colours are all colours are all colours and are all colours	Homo septiens pre-Rotal colonicantencing factor (FDET) mixiva	Homo sapiens 26S professome associated hand handles (2004) - Data	Homo sanjane 36S professome encociated pour limitude (COLI) IIINNA Homo sanjane 36S professome encociated and the collection of the collec	Homo saplens V-raf mitrine servers with connects the Line of White Paris	AU117241 HEMBA1 Homo sanians CONA Alma HEMBA1000000 ET	Homo sapiens RIBIIR dene (nartial) exon 12	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA	qe62h01.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1743601.3' similar to gb:L11566 60S RIBOSOMAL PROTEIN 118 /HI IMAN)	qe62h01.xf Soares_feta_lung_NbHL19W Home sepiens cDNA clone IMAGE:1743601.3' similar to	WITCH I TO COME TO THE PROTEIN LIB (HUMAN);	wh57b06x1 NCI_CGAP_KI411 Homo sapiens CDNA clone IMAGE:2384819 3' similar to TR:055137	COSTS ACTIONS INCESTERABLE	rronno sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	From Sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA martial cds	מים של היים להיים היים להיים היים להיים היים
Top Hit Database Source	EST HUMAN			EST HUMAN	IN IN	Į.	EST HUMAN	T	Т			N N									T HUMAN	Ŧ		EST HUMAN	FOT LIMAN	Т		NOMOLI		T HI IMAN	NT	
Top Hit Acession No.	3F035316.1	3E897376.1	· 4505222 NT		1.0E-68 AB011149.1	\B011149.1	1.0E-68 AW451832.1	1.0E-68 BE296032.1	VA897343.1	7662349 NT	11418869 NT	11418869 NT	1	4505222 NT	11430460 NT	5031976 NT	5031976 NT	5031980 NT	5031980 NT	4757867 NT	7.1		9966912 NT	6.0E-69 AI192764.1	,			57730	TN C277734	211132	-	
Most Similar (Top) Hit BLAST E Value	2.0E-68 BF0353	2.0E-68 BE8973	1.0E-68	1.0E-68 AW8164	1.0E-68	1.0E-68 AB01114	1.0E-68	1.0E-68	1.0E-68 AA8973	1.0E-68	1.0E-68	1.0E-68	1.0E-68 L76416.	1.0E-68	1.0E-68	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69	9.0E-69 AU11724	8.0E-69	7.0E-69	6.0E-69	6.0E-69 A1192764	4.0E-69	4 0F-69 A	4 0F-60	4 OF 50	3.0E-69 BE25801	3.0E-69 AF22171	
Expression Signal	4.79	1.92	1.31	98'6	1.32	1.32	1.01	0.95	0.98	1.57	2.44	2.44	2.29	1.95	1.38	1.82	1.82	1.63	1.63	0.78	9.27	1.21	80'9	3.61	3.64	1.88	4 12	2.43	243	2.81	1.64	
ORF SEQ ID NO:	26095		19873	20078	21994	21995	22486	23617	24598	24959	28361	28362	28396	19873	24991	19797	19798	20772	20773	23718			25852	26659	26660		25554	26024	26025	20187	20340	
Exan SEQ ID NO:	15962	19731	10056	10257	12092	12092	12590	13837	14831	15183	18108	18108	18155	10056	19669	10006	10006	10929	10929	13940	18143	13260	15740	16469	16469	10451	15481	15900	15900	10364	10532	
Probe SEQ ID NO:	6202	9148	72	293	2205	2205	2728	3928	4954	5261	8226	8228	8275	9659	9862	19	19	1011	1011	4037	8263	3340	5834	6289	6589	509	5565	5995	5995	380	596	

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Table 4
Single Exon Probes Expressed in Heart

ORF SEQ Expression ID NO: Signal 1	E				
3674		(Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
23674	1.35	3.0E-69	3.0E-69 T80514.1	EST HUMAN	yd08a02.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48836 A48836 SPEGF III=FGF REPEAT.CONTAINING EIDDODELLIN LICE FIGURE 1
23674	0.88	3.0E-69	5729910 NT	N	Homo sabiens hymphatic vessel endothetial hyminingen recentive of 1/24/6/4/ - SEA URCHIN;
	,0.86	3.0E-69	3.0E-69 AI765888.1	EST_HUMAN	wh66g08x1 NCI CGAP Kid11 Homo saniens cDNA chore IMAGE 2385758 3
29105	5.94	3.0E-69	11418185 NT	NT	Homo saplens aconitase 2, mitochondrial (ACO2) mRNA
26410	1.37	3.0E-69	3.0E-69 U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neuroiungin (CTNND2) mRNA Partial Ac
26485	8.43	3.0E-69,	3.0E-69 AF268075.1	N	Homo sapiens TRAF6-binding profesion TRAF6-binding pro
	1.26	3.0E-69,	1.6	EST HUMAN	EST88807 HSC172 cells Homo saniens cDNA 5' and similar to similar to the contract of the co
27491	1.54	3.0E-69	3.0E-69 X13223.1	N	H.sapiens mRNA for N-scendolucosamide/heta 1-4/hostarthenthensemen
27568	2.24	3.0F-69	3.0E-69 X06233 1	IN	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor
28174	3.07	3.0E-69	1432120	LN LN	(mir. / reacted protein Homo saniens rithosomal protein S15- (RDS15A) DNA
	7.12	3.0E-69/	3.0E-69 AA376399.1	EST HUMAN	EST88807 HSC172 cells II Homo seniers chay Firm circles to in the circles chay and circles to in the circles changes c
	4.13	3.0E-69	9157	1	Homo sapiens HGC8.2 profein (HGC8.2) mRNA
20170	+	2.0E-69	2.0E-69 AF160252.1	NT	Homo saplens KIAA0553 protein dene, complete cds; and alphallh protein comp. 2.1.
20171	1	20E-69/	2.0E-69 AF160252.1	NT	Homo sapiens KIAA0563 protein gene, complete cals, and alphalib protein gons,
20170	4.94	2.0E-69		IN	Homo sapiens KIAA0553 protein gene, complete cds; and alphalis protein gene, partial cas
20171	4.94	2.0E-69		NT	Homo sapiens KIAA0553 protein dene, complete cds, and alphalib protein gans,
21616	1.2	2.0E-69	<u>.</u>	EST_HUMAN	601109444F1 NIH MGC 16 Home sapiens cDNA clone IMAGE:3350074 F
	2.73	2.0E-69 /	2.0E-69 AA431157.1	EST HUMAN	ZW71g02.r1 Soares testis NHT Homo saniens cDNA clans IMAGE:784692 51
21445	2.35	1.0E-69	1.0E-69 AF053768.1		Raftus norvegicus brain specific cortactin-binding protein CRP90 mRNA martial add
26008	3.68	1.0E-69	1.0E-69 AW393969.1	EST_HUMAN	QV0-110010-031199-045-007 110010 Homo sepiens cDNA
26211	1.55	1.0E-69	7662263 NT		Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
26212	1.55	1.0E-69	7662263 NT		Homo sapiens KIAA0716 gene product (KIAA0716) mRNA
26173	2.93	1.0E-69/	1.0E-69 AB032973.1	N	Homo sapiens mRNA for KIAA1147 protein nartial cde
26174	2.93	1.0E-69 ∤		N	Homo sapiens mRNA for KIAA1147 brotein, partial cds
27942	5.29	1.0E-69 E	1.0E-69 BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
27943	5.29	1.0E-69 B	1.0E-69 BE245070 1	EST HIMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens
	23.27	1.0E-69	504918		Homo capiens fearain 8 (VDT8) mBN/A
28785	1.63	1.0E-69 BF125887		T HIJMAN	60/762gn2F3 NIH MGC 20 Umm

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Table 4
Single Exon Probes Expressed in Heart

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Oligio Lyol Flobes Expressed In hear	Top Hit Descriptor	wf64e08.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu Impetitive element contains element MIP sensitive closes.	Inc13d12rf NC CGAP Pri Home seniers CNA clare 1840 E-1000000	Homo sapiens DGS-I mRNA 3' and	three of NCI CGAP Rh25 Home seniors child clara IMA CE: 24 george	TM8901.X1 NCI CGAP Bm25 Home seniens cDNA clone IMACE: 2165093	Z15h04.r1 NCI CGAP GCB1 Homo saniens cDNA close IMAGE: 713720 5:	Homo sapiens tumor suppressor deleted in oral cancer-related 4 (DOC 4D), DAIA	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA	Homo sapiens MIST mRNA, partial ods	Homo sapiens MIST mRNA, partial ods	Homo sapiens dene encodina salicina fector SE4 examp 2 9	Homo sapiens mRNA for KIAA1204 morteln martial refe	Home sabiens mRNA for KIAA1204 profein martial adv	Human displacement profess (CCAAT) mRNA	Human displacement protein (CCAAT) mRNA	Human PBX3 mRNA	Human PBX3 mBNA	Homo saplens phosphriling scramplace 1 gaps over 1 and 2. 6	Homo sablens karvonherin heta 2h transandin (TDNI2) - DNIA	Homo septens karvonherin beta 2b fransandin (TRN2) DNA	WANTE (ZXXII) Introduction for the state of	rigino sapiens nin (nistone cen cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA) mRNA		Himan Ki (AZONSO) enhinit mobile Accursor protein (protease nextral), Alzheimer disease) (APP), mRNA	Homo saniane CMP, N. goshidan market and J. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	Homo capiens KIA A0703 and an all A071 A0700 and all and a a	Homo espiens (LIA A A A A A A A A A A A A A A A A A A	MR3-HT0/87-150-00-115-06-1170-07-1 MRNA MR3-HT0/87-1 MRNA	RC0-BT0522-071299-011-a12 BT0522 Home capiens CUNA	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA	
gie LAUII FIU	Top Hit Database Source	EST HUMAN	EST HUMAN	Z	EST HUMAN	EST HUMAN	EST HUMAN	NT	F	NT.	۲	Ę	NT.	NT	Į.	NT	NT	NT	IN	NT	LN LN	Į.		NT	TIN	L	Į.	L	LN LN	EST HIMAN	EST HUMAN	EST_HUMAN	
5 	Top Hit Acession No.	AI809994.1	8.0E-70 AA230303.1	77566.1	41497807.1	5		5031668 NT	4757723 NT	7.0E-70 AB032369.1	7.0E-70 AB032369.1	7.0E-70 AJ000052.1	AB037715.1	\B037715.1		A74099.1	(59841.1	(59841.1	NF153715.1		11525964 NT	14 EDE340 NIT	61002011	11526319 NT	4502488 NT	1	8923899	7662307 NT	7662307 NT	11	1.5	П	
	Most Similar (Top) Hit BLAST E Value	1.0E-69 AI80999	8.0E-70	8.0E-70 L77566.	7.0E-70 AI497807	7.0E-70 AI497807	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70	7.0E-70 /	7.0E-70 AB03771	7.0E-70 AB03771	7.0E-70 M74099.	7.0E-70 M74099.	7.0E-70 X59841.1	7.0E-70 X59841.1	7.0E-70 AF15371	7.0E-70	7.0E-70	7.0E-70	21	7.0E-70	6.0F-70	6.0E-70 M30938	6.0E-70	5.0E-70	5.0E-70	5.0E-70 BE16603	3.0E-70 B	3.0E-70 BE07179	
	Expression Signal	232	1.52	2.16	1.93	1.93		3.57	3.86	5.28	5.28	1.89	2.36	2.36	3.98	3.98	3.72	3.72	3.13	1.56	1.56	178		1.78	1.83	1.36	0.99	1.83	183	1.73	0.89	0.89	
	ORF SEQ ID NO:		22065	23954	21547	21548	21660		23807	25124	25125	26120	26980	26981	27131	. 27132	27357	27358	26627	26648	26649	28978		28979	20630	21874	22232	22268	22269		21332	21333	
	Exon SEQ ID NO:	19124	12717	14176	11670	11670	11784	11909	14032	15289	15289	15985	16788	16788	16940	16940	17159	17159	16441	16457	16457	18687		18687	10780	11979	12338	12723	12723	18879	11475	11475	
	Probe SEQ ID NO:	9510	2284	4277	1771	1771	1888	2018	4132	5369	5369	6138	6910	6910	7063	7063	7283	7283	7428	7445	7445	8875		8875	853	2090	2461	2505	2505	9116	1571	1571	
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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'	NO7a10.11 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HI_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR:	NO7a10.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HI RAT P29298 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECLIPSOR	4551h01x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE-2004913.3	Homo sapiens hypothetical protein FLJ20758 (FLJ20768), mRNA	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA	hz64c12x1 NCI_CGAP_Lu24 Homo saplens cDNA done IMAGE:3212758 3'	Homo sapiens chromosome 21 segment HS21C002	248g04.11 Soares refina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A P03345 GAG POLYPROTEIN	Human nonmuscle myosin heavy chain-B (MYH10) mRNA, partial cds	H.saplens gene for schwannomin (CS8)	H.sapiens gene for schwannomin (CS8)	Homo sapiens NALP1 mRNA, complete cds	Human mRNA for NF1 protein Isoform (neurofibromin Isoform), complete cds	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds	Homo saplens cytoplasmic dynein intermediate chain 1 mRNA, complete cds	Homo sapiens sialyltransferase 6 (N-acetyllacosaminide albha 2 3-sialyltransferase) (SIAT6) mRNA	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exma 4 and 5	Homo saplens calcium-binding transporter mRNA, partial cds	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3SB) mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamytransferase) (TGM3)	2054ch3 rt Sparee teeffe NHT Home continue and a 1110 OF 2771111 F	AV738538 CB Homo sapiens cDNA clone CRI RGR10 5	
פופ באסוו ד וטא	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	뒫	F	N N	EST_HUMAN	IN	EST HUMAN	K	. IN	ĮŅ.	N	N _T	ΙZ	Ę	Ŋ	Ę	N F	N	Z L	N.	N.	ΡĀ		T HIMAN	1	1
5	Top Hit Acession No.	3.0E-70 BF685233.1	3.0E-70 BF685233.1	N42161.1	N42161.1	AI246899.1	8923669 NT	7661983 NT	7661983 NT		2.0E-70 AL163202.2	4A054010.1	M69181.1	X72662.1	K72662.1	2.0E-70 AF310105.1	012625.1	2.0E-70 AF123074.1	4F123074.1	11422642 NT	M21741.1	2.0E-70 AF123303.1	8923420 NT	8923420 NT	4503520 NT	11430460 NT	11430460 NT	4507476 NT	AA42292 1	1.0E-70 AV738538.1	
	Most Similar (Top) Hit BLAST E Vatue	3.0E-70	3.0E-70	2.0E-70 N42161.	2.0E-70 N42161.	2.0E-70 AI24689	2.0E-70	2.0E-70	2.0E-70	2.0E-70 BE46731	2.0E-70	2.0E-70 AA05401	2.0E-70 M69181.	2.0E-70 X72662.	2.0E-70 X72662.1	2.0E-70	2.0E-70 D12625.1	2.0E-70	2.0E-70 AF12307	2.0E-70	2.0E-70 M21741.	2.0E-70	2.0E-70	2.0E-70	2.0E-70	2.0E-70	2.0E-70	1 0F-70	1.0E-70	1.0E-70/	
	Expression Signal	3.88	3.88	13.15	13.15	2.01	1.7	1.95	1.95	26.0	2.09	3.62	3.95	8.05	8.05	1.42	1.88	6.83	9.83	1.69	79.7	1.3	3.19	3.19	5.82	2.58	2.58	2.97	2.57	13.73	
	ORF SEQ ID NO:		25866	20426	20427	20449	20766	20924			21479		23648	25156	25157	25780	26028	. 26042	26043	24853		27930	28550	28551		25289	25290			28429	
	Exon SEQ ID NO:		15751	10608	10608	10622	10922	11079	11079	11292	11609	12156	13870	15304	15304	15673	15904	15915	15915	15134	16498	17685	18296	18296	18716	19114	19114	13267	17492	18182	
	Probe SEQ ID NO:	5845	5845	674	674	689	1004	1167	1167	1387	1708	2272	3963	5385	5385	5766	5999	6010	6010	6177	6618	7835	8422	8422	8908	9499	9499	3347	7642	8305	

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:014045 014045 PHOSPHOTRANSFERASE.;	qe04f01.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045 O14045 PHOSPHOTRANSFERASE.;	wb52c05x1 NCI_CGAP_GC6 Homo sapiens cDNA done IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES.	wb52c05.x1 NCI_CGAP_GC6 Homo septens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213 CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES.	क्ट1d11.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL.	zv60h06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'	491a06.s1 Soares_fetal_liver_spleen_1NRLS_S1 Homo sapiens cDNA clone IMAGE:462226 3'	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds	QV4-ST0234-181199-037-f05 ST0234 Homo saplens cDNA	W18h10.x1 NCI_CGAP_Utf Homo sapiens cDNA clone IMAGE:2425315 3'	Homo sepiens cyclin-dependent kinase 6 (CDK6) mRNA	Human neurofibromatosis protein type 1 mRNA, 3' end of cds	Homo sapiens transcription factor WSTF mRNA, complete cds	Human PreA4 gene for Alzhelmer's disease A4 amyloid protein precursor (exon 2)	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective fissue-activating peptide-2) (PPBP), mRNA	Homo sepiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC63325), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens RNA binding motif protein 9 (RBM9), mRNA	Homo saplens fumor necrosis factor (ligand) superfamily, member 10 (TNFSF10) mRNA	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds	Homo saplens hook1 protein (HOOK1), mRNA	Homo sapiens hook1 protein (HOOK1), mRNA	Homo sapiens plasminogen (PLG) mRNA	Homo sepiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds	Homo sapiens putative heme-binding protein (SOUL), mRNA
gie Exon Pro	Top Hit Dafabase Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	TN	TN	EST_HUMAN	EST_HUMAN	NT	NT	NT	N	Z	LN TN	TN	TN	NT	IN	TN	L	NT	NT	LN TN	NT
	Top Hit Acession No.	41143870.1	A1143870.1	9.0E-71 Al654903.1	4.1654903.1	8.0E-71 AA171451.1	7.0E-71 AA442230.1	7.0E-71 AA705457.1	4L163210.2	5.0E-71 AF056322.1	5.0E-71 AW816405.1	5.0E-71 AI829496.1	4502740 NT	M38106.1	4F072810.1	K13467.1	11436514 NT	11438069 NT	11417862 NT	11418039 NT	4507592 NT	4F157626.1	4.0E-71 AF157626.1	7705414 NT	7705414 NT	4505880 NT	4F056322.1	7657602 NT
	Most Similar (Top) Hit BLAST E Value	9.0E-71 AI143870	9.0E-71 AI143870	9.0E-71	9.0E-71 AI654903	8.0E-71	7.0E-71	7.0E-71	7.0E-71 AL16321	5.0E-71	5.0E-71	5.0E-71	5.0E-71	5.0E-71 M38106.	5.0E-71 AF07281	5.0E-71 X13467.1	5.0E-71	5.0E-71	5.0E-71	5.0E-71	4.0E-71	4.0E-71 AF15762	4.0E-71	4.0E-71	4.0E-71	4.0E-71	4.0E-71 AF05632	4.0E-71
	Expression Signal	6.04	6.04	1.88	4.65	1.97	7.91	1.52	4.18	3,45	1.38	3.2	2.14	1.59	19.78	226	1.9	2	1.84	1.62	1.13	115.63	115.63	0.88	0.88	1.63	3.35	4.99
	ORF SEQ ID NO:	25621	25622	26226	26226		26386				23710	24782			26585		28477	28668									24009	24567
	Exon SEQ ID NO:	15536	15536	16077	16077	17122	16226	16914	18507	12050	13933	15011	15501	16295	16406	17552	18225	18400	18848	19063	10082	10306	10306	12778	12778	12785	14227	14792
	Probe SEQ ID NO:	5621	5621	6192	8811	7245	යෙය	7037	8643	2163	4030	5144	9299	6434	6548	7102	8348	8258	2906	9411	97	347	347	2850	2850	2857	4330	4913

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Single Exon Probes Expressed in Heart

	155	7	Τ	Т	T	T	T-	Т	9	7	7	Т	Т	Т	Ť	T	T	Ť	T	-	٦	<u></u>	1	T	Т	
Top Hit Descriptor	nI45h10.s1 NCI_CGAP_Pr4 Homo septens cDNA clone IMAGE:1043683 similar to contains PTR5.t3 PTR5 repetitive element :	Homo saplens chromosome 21 seament HS21C006	Human mRNA for KIAA0272 gene, partial cds	Human mRNA for KIAA0272 gene, partial cds	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds.	bb81a06.yf NIH_MGC_10 Home septions cDNA clone IMAGE:3048764 6' similar to SW:R23B_HUMAN PR4727 UV EXCISION REPAIR PROTEIN PROTEIN RAD33 HOMAN OG B.	ye43e09.r1 Soares fetal liver soleen 1NFI S Homo saniens CONA clans IMAGE: 120620 F	oy15e03.s1 Soares_senescent_fibroblasts_NbHSF Home sapiens cDNA clone IMAGE:1665916.3' similar to contains_LOR1.b2_LOR1 repetitive element*	Homo sapiens neuronal cell death-related protein (1 OCS1646) mRNA	Homo sablens disabled-2 dene exons 2 through 15 and complete add	Homo saplens phosphatidylinositol 4-kinasa 230 (ni4K230) mRNA complete cus	Homo sapiens PMS2L16 mRNA, partial cds	Homo saplens PMS2L16 mRNA, partial cds	Homo sapiens hairy/enhancer-of-split related with YRPW motif-file (HEVI) mRNA	Homo sapiens inorganic pyrophosphatase mRNA, complete cis	Homo saplens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo saplens cDNA	Homo saniens affraction practices (ATDN) and a second to the saniens affraction are a second to the	Human mRNA for KIAAAAA5 dana complete ods	Homo saplens GCN5 (neneral control of amino acid quettoris	Homo sapiens CAGL79 mRNA partial cde	Homo saplens myomesin (M-protein) 2 (165kD) (MYOM2) mRNA	Homo sapiens hypothetical protein FL/10998 (FL/10998), mRNA
Top Hit Database Source	EST HUMAN	K	R	NT	N	Į.	EST HUMAN	EST HUMAN	EST HUMAN	F	IN	N	N	NT	TN	N	N	NT	EST_HUMAN	ECT LI IMANI	TN TN	IN	L	N.		
Top Hit Acession No.	AA557683.1	2.0E-71 AL163206.2	2.0E-71 D87462.1	2.0E-71 D87462.1	2.0E-71 AF095703.1	2.0E-71 AF095703.1	2.0E-71 BE018477.1	2.0E-71 T95489.1	AI077927.1		1.0E-71 AF205890.1	2.1	1.0E-71 AB017007.1		7657153 NT				1.0E-71 BE122850.1	1 0E-71 BE122850 1	T		1426182	U80753.1	1425430	8922811 NT
Most Similar (Top) Hit BLAST E Value	3.0E-71	2.0E-71	2.0E-71	2.0E-71	2.0E-71	2.0E-71	2.0E-71	2.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1 0E-74	1.0E-71	1.0E-71	1.0E-71		1.0E-71	1.0E-71
Expression Signal	3.32	2.52	98.9	6.96	2.56	. 2.56	2.3	6.22	2.11	1,83	4.01	10.59	123	1.23	4.85	1.17	4.73	4.73	0.94	0 0	1.87	1.86	4.1	10.62	96.9	4.18
ORF SEQ ID NO:		20968	24957	24958	28114	281.15	28219		20371	20699	20841	21080	21821	21822	22416	23179	23256	23257	23298	23288	23381	24050	26079	26351	26816	26986
Exon SEQ ID NO:	17968			15181	17872	17872	17970	18920	10559	10851	11000	11224	11927	11927	12528	13373	13462	13462	13511	13511	13595	14266	15947	16189	16629	16794
Probe SEQ ID NO:	8077	1210	5259	5259	8022	8022	8079	9181	622	926	1084	1317	2036	2036	2661	3467	3546	3546	3597	3597	3681	4370	6044	6326	6750	6916

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Single Exon Probes Expressed in Heart

		7	$\overline{}$	Т	Т	\neg	7	-	_	10	10			-	_	÷	-7-	-	-		<u>.</u>	_	+	,		<u> </u>	
Oligio Lyon Flores Lypressed III nealt	Top Hit Descriptor	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA	Homo sapiens cytochrome c oxidase subunit VIIa-related protein gene, complete cds	AV761217 MDS Homo saplens cDNA clone MDSEIA03 5	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 51	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA	Homo sapiens leucy/cystiny aminopeptidase (LNPEP) mRNA	Homo saplens leucy/lcystiny/ aminopeptidase (LNPEP), mRNA	Homo sapiens gene for AF-6, complete cds	wk95g03.XI NCI_CGAP_Lu19 Homo saplens cDNA clone IMAGE:2423188 3' shnilar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN :contains Alu repetitive element:	wk95g03.x1 NCI_CGAP_Lu19 Home septens cDNA clone IMAGE:2423188 3' similar to TR.O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN :contains Alu repetitive element:	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitocondrial profess mBNA	Homo saplens aconitase 2. milochondria (ACO2) michae nene encoden mithocandria anteria	Homo saplens acontiase 2 mitro-handria (ACO2) micro-handria (ACO2)	(beeudodene) PTMAP2=prothymosin slnha Ihiman Gammir 1402 pt commun 2.53	Homo sapiens chromosome 21 segment HS21C046	7K63a05.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone INAGE:3480080 3' similar to SW:KMLC_RABIT P07313 MYOSIN LIGHT CHAIN KINASF_SKEI ETAI MI ISCI E	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens CDNA	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens CDNA	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA	QV6-CS0010-150900-398-e11 CS0010 Homo saniens CDNA	Homo sapiens alpha-tubulin mRNA, complete cds	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003761 6'	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to	MR4-BT0598-010600-005-405 BT0598 Home conjugate blank	MR4-BT0598-010600-005-405 BT0598 Home saniers cDNA	QV1-BT0632-280800-342-a10 BT0632 Homo sapiens cDNA
פון בווסעד פול	Top Hit Database Source	IN	F	EST HUMAN	EST HUMAN	N L	LN L	N	NT	EST_HUMAN	EST_HUMAN	F F	Z		Į.	NT	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	N	EST_HUMAN	EST HIMAN	EST HIMAN	EST HUMAN	EST_HUMAN
5	Top Hit Acession No.	8922811 NT	343.1	AV761217.1	1.0E-71 AV761217.1	11418903 NT	11417191 NT	11417191 NT	99.1	9.0E-72 Al857635.1	9.0E-72 AI857635.1	4501866 NT	4501866 NT	4501866 NT		2.	6.0E-72 BF059578.1	07.1	07.1	07.1	07.1	Γ	5.0E-72 AU128584.1	5.0E-72 AW161274 1	Τ	Γ	\prod
	Most Similar (Top) Hit BLAST E Value	1.0E-71	1.0E-71 AY007	1.0E-71 AV761	1.0E-71	1.0E-71	1.0E-71	1.0E-71	1.0E-71 AB0113	9.0E-72	9.0E-72	7.0E-72	7.0E-72	7.0E-72	7.0E-72 S41694.1	6.0E-72	6.0E-72	5.0E-72 BF3337	6.0E-72 BF3337	5.0E-72 BF3337	5.0E-72 BF3337	5.0E-72 L11645.1	5.0E-72	5.0E-72	5.0E-72	5.0E-72	5.0E-72
	Expression Signal	4.18	6.49	3.39	4.87	3.2	2.33	2.33	4.48	1.15	1.15	5.23	5.23	523	2.94	3.72	222	0.88	0.88	2.95	2.95	2.75	1.47	3.55	3.18	3.18	2.43
	O.S.		27820			28383		28624		20173	20174	23700	23701	23702	26244		28893	19854	19855	19854	19855		26163	27167	28706	28707	
	Exon SEQ ID NO:	16794	17598	17642	18052	18136	18359	18359	19147	10347	10347	13926	13926	13926	16094	16764	18603	10043	10043	10043	10043	11037	16023	16974	18437	18437	19700
	Probe SEQ ID NO:	6916	7748	7792	8164	8256	8486	8486	9547	401	401	4023	4023	4023	6228	6885	8788	99	99	25	22	1122	6150	7007	8569	8269	9253

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Single Exon Probes Expressed in Heart

Exam ORF SEQ Expression or (Top) Hit and (Top) Hit are signal or (Top			_,													_				<u></u>							_			
Exam Most Similar Signal Most Similar BAST E Value Top Hit Acession No. Top Hit Top Hit Acession No. Top Hit Top Hit Acession No. Top Hit Top Hit Acession No. Top Hit Top Hit Acession No. Top Hit Source 14602 276 4.0E-72 11034844 NT NT 17484 27705 1.42 4.0E-72 5729897 NT 18628 28917 7.32 4.0E-72 11034844 NT 18628 28917 7.32 4.0E-72 5729897 NT 18628 28917 7.32 4.0E-72 18728891 NT 11053 20894 4.2 4.0E-72 187390 NT 11063 20895 6.06 3.0E-72 1416306 NT 13663 22412 3.0E-72 1416306 NT 14339 24128 2.61 3.0E-72 14339 24128 2.63 3.0E-72 14339 24128 2.4 3.0E-72 14339 2.4 3.0E-72 14350 2.644 3.0E-72 16661 <td>Top Hit Descriptor</td> <td>Homo sapiens hypothetical protein dJ1057820 2 (DJ1057820 2) mRNA</td> <td>Homo saplens het domain and RI D 2 (MEDCS) TO TO TO TO TO TO TO TO TO TO TO TO TO</td> <td>Homo sapiens hymothetical profess (El 120788) (El 120788) - BNA</td> <td>WZB803 r1 Spares fetal liver colonar ANEI S Dame contract COMM 51</td> <td>yd29d09.s1 Soares (etal liver spleen 1NFI S Homo seniens cDNA clane IMACE: 235084 5</td> <td>Home emione WEEA</td> <td>ah63a06 s.1 Sorres thefis NHT Homo conjunctions of the source of the sou</td> <td>Human chondrollin suifate protectives weretran VM entire warms</td> <td>Himen chandrallin cultate actions.</td> <td>Homo saniens 050 kh combo between AMI 4 and ODB4</td> <td>Homo sapiens hundhaffical nortain F1 120586 (E1 120585) - ENTA</td> <td>TCR V delta 2-0 photomic process of the process of the photomic process of the</td> <td>Homo sanjens hundhelled profein (C) 1444773 - Data</td> <td>W631808 x1 NCI CGAP GC6 Home senions of DNA close 114 A CE CONTRET S.</td> <td>Homo sapiens growth farther recentive beauty and protein 40 (CBB4A)</td> <td>Homo sapiens growth factor recentor-hound protein 10 (ChB10) gene, exon 5</td> <td>Homo saplens mRNA for KIAA1081 profein partial cyle</td> <td>Homo sapiens mRNA for KIAA1081 protein partial cds</td> <td>Homo sapiens ribosomal protein L3-like (RPL3L) mRNA</td> <td>Homo saplens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory</td> <td>protein (naip) and survival motor neuron protein (smn) genes, complete cds</td> <td>Troning Saprens nuclear receptor Subtermity 1, group H, member 3 (NR1H3), mRNA</td> <td>Trouis sapiens 3 rought gene for Calgranulin C, exon 2 and joined cds</td> <td>rionio saptens gene for At-4, complete cds aj28b09.s1 Soares testis NHT Homo saniens cDNA clane 1304600 3' clastica to the Soares</td> <td>nRNA for 7SL RNA pseudogene (HUMAN):</td> <td>Rattus norvegicus putative phosphate/phosphoenclovarivate franslocator mBNA</td> <td>il83d02.s1 Soares parathyroid fumor NHHPA Home semines contact MACE 1997</td> <td>Homo saplens vacuolar protein sorting 41 (veest homology) (VDS441 mbNA</td> <td>Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA</td>	Top Hit Descriptor	Homo sapiens hypothetical protein dJ1057820 2 (DJ1057820 2) mRNA	Homo saplens het domain and RI D 2 (MEDCS) TO TO TO TO TO TO TO TO TO TO TO TO TO	Homo sapiens hymothetical profess (El 120788) (El 120788) - BNA	WZB803 r1 Spares fetal liver colonar ANEI S Dame contract COMM 51	yd29d09.s1 Soares (etal liver spleen 1NFI S Homo seniens cDNA clane IMACE: 235084 5	Home emione WEEA	ah63a06 s.1 Sorres thefis NHT Homo conjunctions of the source of the sou	Human chondrollin suifate protectives weretran VM entire warms	Himen chandrallin cultate actions.	Homo saniens 050 kh combo between AMI 4 and ODB4	Homo sapiens hundhaffical nortain F1 120586 (E1 120585) - ENTA	TCR V delta 2-0 photomic process of the process of the photomic process of the	Homo sanjens hundhelled profein (C) 1444773 - Data	W631808 x1 NCI CGAP GC6 Home senions of DNA close 114 A CE CONTRET S.	Homo sapiens growth farther recentive beauty and protein 40 (CBB4A)	Homo sapiens growth factor recentor-hound protein 10 (ChB10) gene, exon 5	Homo saplens mRNA for KIAA1081 profein partial cyle	Homo sapiens mRNA for KIAA1081 protein partial cds	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA	Homo saplens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory	protein (naip) and survival motor neuron protein (smn) genes, complete cds	Troning Saprens nuclear receptor Subtermity 1, group H, member 3 (NR1H3), mRNA	Trouis sapiens 3 rought gene for Calgranulin C, exon 2 and joined cds	rionio saptens gene for At-4, complete cds aj28b09.s1 Soares testis NHT Homo saniens cDNA clane 1304600 3' clastica to the Soares	nRNA for 7SL RNA pseudogene (HUMAN):	Rattus norvegicus putative phosphate/phosphoenclovarivate franslocator mBNA	il83d02.s1 Soares parathyroid fumor NHHPA Home semines contact MACE 1997	Homo saplens vacuolar protein sorting 41 (veest homology) (VDS441 mbNA	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
Exon NO: CRF SEQ Expression Signal NO: Crop Hit Acession (Top) Hit Top Hit Acession NO: Crop Hit Acession NO: 14602 1.06 4.0E-72 11034844 14602 2.8402 1.42 4.0E-72 5729867 17484 2.7705 1.42 4.0E-72 6729867 18628 2.8917 7.32 4.0E-72 1103484.1 18628 2.8917 7.32 4.0E-72 14774.1 19185 2.5249 4.2 4.0E-72 1781910.1 11063 2.0894 6.06 3.0E-72 AA723823.1 11063 2.0895 6.06 3.0E-72 AA723823.1 11063 2.0895 6.06 3.0E-72 AA723823.1 13661 2.63 3.0E-72 AA723823.1 14771 2.4500 0.94 3.0E-72 AR73867.1 15562 2.5644 2.4 3.0E-72 AR236987.1 15562 2.5644 2.4 3.0E-72 AR236987.1 15661 2.5769 0.94	Top Hit Database Source	N	LN LN	Į.	EST HUMAN	EST HUMAN	I IN	EST HUMAN	l h	L2	L L	L	<u> </u>	L L	T HUMAN					レフ								Ţ		
Exon SEQ ID NO: ORF SEQ Expression (T Signal ID NO: Mos Signal ID NO: Mos Signal ID NO: Mos Signal ID NO: Mos Signal ID NO: Mos Signal ID NO: Mos ID NO: <t< td=""><td>Top Hit Acession No.</td><td>11034844</td><td>5729867</td><td>8923669</td><td></td><td></td><td>,</td><td></td><td></td><td></td><td></td><td>923548</td><td></td><td>1416196</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>4828987</td><td></td><td>2034800</td><td>200 1000</td><td>Ţ</td><td></td><td>_</td><td>1</td><td>_</td><td>357676</td><td>11321578 NT</td></t<>	Top Hit Acession No.	11034844	5729867	8923669			,					923548		1416196	-	-	-			4828987		2034800	200 1000	Ţ		_	1	_	357676	11321578 NT
Exon ORF SEQ Express NO: NO: NO: NO: Sign: 14602	Most Similar (Top) Hit BLAST E Value	4.0E-72	4.0E-72	4.0E-72	4.0E-72	4.0E-72	4.0F-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72	3.0E-72/	3.0E-72 /	3.0E-72	3.0E-72	3.0E-72	3.0E-72	2 OE 72	3.0E-72	3 0F-72 X	3 0F-72 A	0.000	2.0E-72	2.0E-72	1.0E-72 A	1.0E-72	1.0E-72
Exon SEO ID ORI SEO ID NO: 14602 16242 17484 18628 18737 11053 12965 13164 14717 15552 15552 15651 15893 16534 165	Expression Signal	1.06	4:	1.42	7.32	2.76	. 42	4.88	6.06	90'9	10.51	2.63	2.51	3.22	0.94	24	2.4	4.35	4.35	3.02	232	1 26	13	1 85	3	4.45	3.74	2.61	3.15	19.78
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ORF SEQ ID NO:					29030			20894	20895	22759	22963	23445	24129	24500	25843	25644	25758	25759	26016	26501	26822	28051	25262		28257	25246	21812	25506	25976
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Exon SEQ ID NO:					18737	19185	10811	11053	11053	12965	13164	13683	14339	14717	15552	15552	15651	15651	15893	16334	16634	17810	19129		18010	19182	11921	15441	15854
	Probe SEQ ID NO:	4716	6380	7633	8815	8929	9603	882	1139	1139	3037	3241	3750	4445	4835	5639	5639	5743	5743	2988	6475	6755	7960	9516		8122	0006	2030	5524	5949

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	, Top Hit Descriptor	Homo seplens myosin, heavy polymentifie 13 skeletel minesia (AVA 140).	170578 Homo centers ONIA	TOSTS Homo senions chiva	Homo sapiens synaptic alveoprofein SC2 (SC2) mBNA complete ed-	Homo sapiens synaptic alyconotein SC2 (SC2) mRNA complete das	CTORS Home contact only	L13a (RPL13A) mRNA	ws5506x1 NCI_CGAP_Brn25 Homo sapiers cDNA done IMAGE:2501098 3' similar to TR:Q59050	ov39h08 x1 Spares faetie NHT Home emission a PNIA - 1 TAX OT 10000100	1 OCE2454) DNIA	Homo sapiens vacuolar A T Pase Isoform VARB mRNA complete add	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN,	OT FOR LEASINING 2 (FICHWAN); gb:m/21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE); Homo sanlens interfacilities 12 recorded but a character in the complete cds (MOUSE);	plus, beta 1 (ILTZKB1), MKNA	pus, bela 1 (L. Land I.), many 2XM complete ado	Homo saplens thyroid autoantigen 70kD (Ku antigen) (G25D4) mBNA	Homo sapiens hypothetical protein FL/20309 (FL/20309) mRNA	eament HS21Cnn6	egment HS21C082	egment HS21C018	T0494 Homo sapiens cDNA	M4A1), mRNA	eln (HEBP), mRNA	ein (HEBP), mRNA	nRNA partial cds	N0066 Home saniens cDNA	mosome 11	Homo sapiens caspase 8, apoptosis-related cysteine professe (CASPR) mRNA	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
Single Exon Probes Expressed in Heart	Top Hit Database Source	Homo saplens mysin, heavy pa	HUMAN RC4-HT0578-170300-012-002 HT0578 Homo septems - 2018	Т	Т	Homo sapiens synaptic glycopro	EST HUMAN MR0-C10063-071099-002-h11 C10063 Home conference COMIA	Т	WS5506-X1 NCI_CGAP_Brn25 Homo sapiens EST HUMAN 089050 HYPOTHETICAL PROTEIN MARKETS	Т	Т	Homo sapiens vacuolar ATPase	bb62a06.y1 NIH_MGC_9 Home	7	Homo sapiens interferikin 12 receptur, beta 1 (in 12/651), mKNA	Homo sapiens DNA for Hilman POXM complete ode	Homo sapiens thyroid autoantide	Homo sapiens hypothetical prote	Homo saplens chromosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C082		HUMAN QV0-HT0494-020300-137-d03 HT0494 Homo saplens cDNA	Homo sapiens HELG protein (FAM4A1), mRNA	Homo sapiens heme-binding protein (HEBP), mRNA	Homo sapiens heme-binding protein (HEBP), mRNA	Homo sapiens BASS1 (BASS1) mRNA. partial cds	HUMAN RC3-NN0066-270400-011-c04 NN0066 Homo saniens cDNA	Human beta globin region on chromosome 11	Homo sapiens caspase 8, apoptr	Homo sapiens Parkinson disease mRNA
Single E	Top Hit Acession D ₈	11321578 NT	11-	EST	742.1	42.1	968.1	4099	755.1	77.1	11426469			56037	11526037 NT	8.0E-73 AB002059.1 NT	11418189 NT	8923290 NT	L163206.2 NT	L163282.2 NT	불	⊢ "	11422159 NT	11435913 NT	11435913	F139897.1 NT	381.1 EST	.1	4502582 NT	7669539 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-72	1.0E-72	1.0E-72 BE175	1.0E-72 AF222	1.0E-72 AF2227	9.0E-73	9.0E-73	8.0E-73 AW071	8.0E-73 Al0248	8.0E-73	8.0E-73 AF1131	8.0F-73	8.0E-73	8.0E-73	8.0E-73	8.0E-73	7.0E-73	7.0E-73 AL1632	7.0E-73 AL1632	6.0E-73 AL1632	6.0E-73 B	4.0E-/3	3.0E-73	3.0E-73	2.0E-73 AF1398(2.0E-73 AW 898(2.0E-73 U01317	2.0E-73	2.0E-73
	Expression Signal	19.78	3.82	3.82	6.06	90'9	1.23	23.9	1.03	3.06	4.6	2	15.88	222	2.22	2.12	2.69	0.78	1.06	1.62	2.37	3.36	502	0.99	0.89	1.75	1.48	1.1	3.48	0.96
	ORF SEQ ID NO:	25977	26533	26534	27594	27595	21213		20782	21163	25986	26785	27459	27682	27683	25282	26235	20875	22983		7.000	202/4	24032	24506	06017	20610			22869	23221
	Exon SEQ ID NO:	15854	16360	16360	17383	17383	11348	18197	10939	11304	15864	16595	17254	17465	17465	19081	19217	11033	13184	14/43	070	10121	13130	11710	01/10	20/01	11/38	12135	13069	13420
	Probe SEQ ID NO:	5946	6501	6501	7532	7532	1443	8320	1022	1399	5959	6715	7385	7614	7614	9446	9654	148	3261	4863	70.0	5245	4070	2 4	0 00	3	1902	2251	3144	3503

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onigo Exon Flores Expressed in Heart	Top Hit Descriptor	hr64e11.x1 NCI CGAP Kid11 Homo conjent aDNA alexander colorado e.	Homo seciens actio filament essentiated estella (AEAD)	df 7:00 v Morton Estal Cocklor Boune Cock Art J. IIIVIVA	PM0-CT0289-27400.004 h72 CT0200 U.	Homo sabiens phosphatidylinesity of the control of	H.sapiens mRNA for TPCR16 protein	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated modition	and definition of the sale of	Homo sablens interleukin 4 recentor (II 4D) m DAIA	Homo sapiens KIA40716 gene product (KIA40718), mPNA	Homo saplens hynothetical norbin FI 1432224EI 1432232 EBNA	H. saplens mRNA for HIP-I	H.sapiens mRNA for HIP-I	Homo sapiens DNA for amyloid precursor professions and services are services and services and services and services and services and services and services and services and services and services and services and services and services and services and services are services and services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services and services are services and services are services and services and services are services and services and services are services and services and se	Homo sapiens mRNA for KIAA1019 protein partial ods	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete eds)	Homo sapiens protessome (prosome macronely) culturals but the	Homo sapiens proteasome (prosome macronair) subuill, beta type, 1 (PSMB1) mRNA	Homo sapiens mRNA for KIAA1168 protein partial cats	Homo sapiens PLP gene	Homo sapiens PLP gene	Homo sapiens chromosome 21 segment HS21C010	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens KIAA0569 gene product (KIAA0569) mRNA	Homo sapiens mRNA for transmebrane receptor protein	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA	Homo sapiens hydroxyacyt-Coenzyme A dehydrogenase/3 ketoacyt-Coenzyme A thiolase/enoyt-Coenzyme A hydratase (trifinging profein) has submit (1400 to 1500).	EST13131 Thymus fumor III Homo sarions o'DNA 51 cm a circum.
שום האחו פונ	Top Hit Database Source	EST HUMAN	Ę	EST HIMAN	EST HUMAN	Į.	Z			¥	¥	N-	NT	LN L	LZ LZ	F	TN	LN	Þ	5	トフ	N	NT				NT	_		T HUMAN
	Top Hit Acession No.	BE048846.1	11056013 NT	5.0E-74 AW020986.1	190	1425417	5.0E-74 X89670.1	4507866INT	11431471 NT	11431471 NT	7662263 NT	11345483 NT				7.	4.0E-74 AB026898.1	4.0E-74 AB026898.1	506192	4506192 N	\B032994.1 NT	4.0E-74 AJ006976.1		.2	-2	7662183 NT		4504326 NT	4504326 NT	_
	Most Similar (Top) Hit BLAST E Value	6.0E-74	6.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74	5.0E-74 Y09420.1	5.0E-74 Y09420.1	4.0E-74 D87675.1	4.0E-74 AB028942	4.0E-74 /	4.0E-74	4.0E-74	4.0E-74	4.0E-74 AB032994	4.0E-74	4.0E-74	4.0E-74 /	4.0E-74 AL163247	4.0E-74	4.0E-74 Z17227.1	4.0E-74	4.0E-74	3.0E-74 AA300378.
	Expression Signal	2.63	2.49	258	5.19	2.15	10.48	6.74	1.85	1.85	3.73	2.69	1.88	1.88	1.89	4.95	2.44	2.44	4.34	4.34	1.21	0.39	4.4	0.83	1.31	1.57	0.82	3.76	3.76	5.03
	ORF SEQ ID NO:		25016				25526	25552	25594	25595	26152	26758	28252	28253	20063	20611	21692	21693	21808	21809	21870	22149	22772	23204	23655	24142	24192	24644	24645	
	Exon SEQ ID NO:			10813	12534	15240	15456	15479	15516			16564	18006	18006	10243	10761	11814	11814	11918	11918	11975	12257	12979	1338	13880	14301	14405	14880	14880	16854
	Probe SEQ ID NO:	3652	5294	887	2669	5320	5539	5563	5602	2099	6120	9884	8117	8117	278	834	1919	1919	2027	2027	2085	2377	3052	2463	3973	î i	4512	5006	5006	2269

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	Top Hit Descriptor	EST01132 Subtracted Hinnocommie Strategies (and thospine) (no17q05.st NC CGAP Phat Homo capiens child Apra 144 CC4400nc4 21	Homo sapiens alvearaldehvde 3-phosphala dehafransas / CABBY - BNIA	Homo sapiens alvoeraldehude 3-phosphala dehudrooman (CADD), mRNA	Human endogenous retrovirus HERV-K-T47D	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GCIGIN-95, contains element MER22 repetitive element.	Homo saplens epidernal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA	Homo saplens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolon) (EGFR) mRNA	PT2.1 15 G11.r tumor2 Homo saniens c/NA 3'	Novel human dene menning to chamosome 22	Novel human dene manning to champeome 22	Human platelet alvonomate ills mRNA 3' and	RC6-HT0678-220500-014-Ch3 HT0678 Home continue ChNA	Homo sapiens PDZ-73 profein (PDZ-73/NV-CO 39)	Homo sapiens PDZ-73 motein (PDZ-72AIV CO 30) DNA	Homo sapiens PDZ-73 protein (PDZ-73/NV-CO-38) mBNA	Homo sapiens PDZ-73 trafein (PDZ-73/NV-CO-38)RNA	601557524F1 NIH MGC 58 Home saniens of NA plane (NA OF 200754.0 F)	Homo sapiens mRNA for KIAA1395 brotein, partial cds	Homo sapiens chromosome 21 segment HS21C004	д96a06.s1 Stratagene muscle 937209 Homo saplens cDNA clone IMAGE 678048 2	602/2/428F1 NIH MGC 56 Homo sapiens cDNA clune IMACE: 4278856 F	Homo sapiens Misshapen/NK-related kinase (MINK) mRNA	QV4-ST0234-181199-037-405 ST0234 Homo sablens cDNA	Homo sapiens hypothetical protein FL11028 (FI. 141028)	Homo sapiens bela 2 dene	Homo saplens zinc finder protein 259 (7NF250) mRNA	Homo sapiens chromosome 21 segment HS21.0046	Homo sapiens DNA for Human P2XM, complete cds	Homo saplens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
01 1100 018	Top Hit Database Source	EST HUMAN	EST HUMAN	L L	F	F	EST_HUMAN	TN	FX	EST HUMAN		L	L	EST HUMAN	LN	LN PA	N	N.	EST HUMAN	N	ΝΤ	EST_HUMAN	T_HUMAN		T_HUMAN		NT		N	,	
	Top Hit Acession No.	M78984.1	3.0E-74 AA601493.1	7669491 NT		AF02006	Al950528.1	4885198 NT	4885198 NT	2.0E-74 AI557280.1	2.0E-74 AL355092.1	2.0E-74 AL355092.1	J02963.1	BE711134.1	11439587 NT	11439587 NT	11439587 NT	11439587 NT	BF030788.1			2.0E-74 AA196181.1	38.1	7334	1.0E-74 AW816405.1	8922829 NT	1	4508020 NT	1.0E-74 AL163246.2	1.0E-74 AB002059.1	4758697 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-74 M7898	3.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74 AI95052	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74 J02963.	2.0E-74 BE7111	2.0E-74	2.0E-74	2.0E-74	2.0E-74	2.0E-74 BF03078	2.0E-74 AB0378	2.0E-74	2.0E-74	2.0E-74 BF66656	1.0E-74	1.0E-74	1.0E-74	1.0E-74 X02344.	1.0E-74	1.0E-74	1.0E-74 /	1.0E-74
	Expression Signal	2.42	2.22	126.24	126.24	1.01	1.15	2.94	2.94	1.09	1,95	1.95	1.89	1.64	1.98	1.98	2.57	2.57	1.55	1.43	6.54	1.46	1.26	26.0	3.6	1.19	2.7	1.35	2.17	6.19	5.96
	ORF SEQ ID NO:	27519	28010	20714	20715	20916	20986	21340	21341	22323	24582	24583	24588	25630	25584	25585	25584	25585	26235	26700	27523		25196	19841	20108	20247	20252	20331	20751	21968	22822
	Exon SEQ ID NO:	17312	17771	10867	10867	11071	11132	11481	11481	12430	14815	14815	14820	19446	19448	19448	19448	19448	16085	16511	17316	19047	19380	10035	10293	10434	10439	10524	10906	12066	13026
	Probe SEQ ID NO:	7394	7921	942	942	1158	1224	1577	1577	2558	4937	4937	4942	5543	5594	5594	5629	5629	6219	6631	/388	9387	8903	47	334	<u>\$</u>	497	286	88	2179	3100

Page 277 of 413 Table 4 Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sapiens chromosome 21 segment HS21C068	RC2-BT0642-270300-019-f06 BT0642 Homo sepiens cDNA	hz73h08.x1 NCI_CGAP_Lu24 Homo saplens cDNA done IMAGE:3213663 3' similar to WP:B0511.12 CE17351 :	Homo sapiens DCRR1 mRNA, partial cds
 | Homo sapiens DNA for Human P2XM, complete cds | Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) | genes, complete cds | Homo sapiens DNA cytosine-5 methytransferase 3B (DNMT3B) mRNA, complete cds

 | Homo sapiens chromosome 21 segment HS210002 | wk38a08.x1 NCI_CGAP_Pr22 Homo saplens cDNA done IMAGE:2417654 3' similar to gb:M14123_cds4
RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN): | aj28c06.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391626 3' similar to TR:Q15377 Q15377 YCHROMOSOME RNA RECOGNITION MOTIE DEDATEM. | MRO-SN0040-080600-008-006 SN0040 Homo saniens chila
 | 602186816T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE-4298738 3 | #31c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361 | HYPOTHETICAL 20.1 KD PROTEIN; | WORNER of Source and account of the first of | CMA-NNIANSZ 45040A 235 -44 NNIAOSZ U
 | 601303866F1 NIH MGC 21 Homo saniens CDNA clans MACE 3838344 F | Homo sapiens eukarvotic translation initiation factor 3 er thinit 8 (410tD) (E15250) DNA | Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA | Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA | Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA | Homo sapiens HTRA serine protease (PRSS11) gene, complete cds | Homo saplens HTRA serine protease (PRSS11) gene, complete cds |
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No. | AL163268.2 | BE083080.1 | 3E467769.1 | D83327.1 | 3E549105.1 | | | 11420549 | 11417856 | 11417856
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 | | 9457 | 11417946 | 11417946 | 7669505 | 3.1 | 3.1 |
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Value | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74 | 1.0E-74
 | 1.0E-74 | 100 | 1.0E-74 | 8.05-73/

 | 8.0E-75 | 6.0E-75 | 6.0E-75 | 5.0E-75
 | 5.0E-75 | 1 | 3.0E-73/ | 4 0F-75 | 4 0F-75 /
 | 4.0E-75 | 4.0E-75 | 4.0E-75 | 4.0E-75 | 4.0E-75 | 3.0E-75 | 3.0E-75 AF15762 |
| Expression
Signal | 4.56 | 0.0 | 6.0 | 1.19 | 1.83 | 1.83 | 3.92 | 1.31 | 1.6 | 2.83
 | 4.14 | 00 7 | 1.36 | 4.07

 | 1.67 | 0.88 | 0.86 | 1.04
 | 1.22 | | 1.05 | 123 | 1.5
 | 4.65 | 4.29 | 1.56 | 1.56 | 8.72 | 2.91 | 2.25 | | | |
| ORF SEQ
ID NO: | | | 23845 | 24754 | 26765 | | | | · |
 | 21968 | | |

 | | 22055 | | 24746
 | 27520 | 02060 | 19903 | | 21498
 | 22540 | 25806 | 26084 | 26085 | 28214 | 20754 | 20754 |
| Exon
SEQ ID
NO: | | 13881 | 14070 | 14980 | 16574 | | 16989 | 17838 | 18818 | 18873
 | 12066 | 19001 | 19201 | 0/47

 | 19059 | 12157 | 14995 | 14970
 | 17313 | 47796 | 10088 | 10395 | 11629
 | 12747 | 15698 | 15953 | 15953 | 17963 | 10909 | 10909 |
| Probe
SEQ ID
NO: | 3887 | 3974 | 4170 | 5112 | 6694 | 6694 | 7112 | 7988 | 9024 | 9106
 | 9249 | 02700 | 7507 | 7007

 | 9406 | 2273 | 6128 | 5102
 | 7395 | 7878 | 107 | 451 | 1728
 | 2818 | 5792 | 6052 | 6052 | 8072 | 986 | 987 |
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Top Hit	ac//b08.s1 Stratagene fung (#937210) Homo sapiens cDNA clone IMAGE:868599 3' Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced 601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:075235 075235 TRAP1;
	ac//b08.s1 Stratagen Homo sapiens calciun spliced 601437130F1 NIH_M	wb30b10.x1 NCI_CGAP_ TRAP1;
	NT EST_HUMAN	EST_HUMAN
4. Similar Top Hit Aces AST E No. All Aces AST E No. All Aces AST E No. All AST E AS	2 12 2	A1652648.1
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Expression Signal 1.98 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07	2.6	1.45
21569 21569 21852 22144 22711 23030 23031 23031 24015 26248 26248 26248 26523 27152 27152 27152	28573	19825
Exan NO: 11653 11955 12253 1227 1327 1327 1327 1327 1327 1327 14233 16363 16363 16363 1707 15400 16959 12139 12843 17290 17290	18315	10026
Probe SEQ ID NO: 1785 2373 2373 2373 3306 4077 4336 6058 6058 6494 77183 7183 5480 7183 7423 7423	8441	38

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	32	T	Т	T	Т	Т	Τ	Т	T	T	T		Т	Т	T	T	T	T	Т	Т	Т	Т	T	Т	Τ	Т	T	Т	Т	T	7
Top Hit Descriptor	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:075235 07523	285507.s1 Scares fetal liver spleen 1NFLS S1 Hamo sapiens cDNA clone IMAGE-447541 at	Human ferritin Heavy subunit mRNA, complete cds	Homo sapiens H factor 1 (complement) (HF1) mRNA	Homo sapiens H factor 1 (complement) (HF1) mRNA	Homo sapiens mediator (Sur2), mRNA	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA	Homo saplens serine/threonine kinase 2 (STK2), mRNA	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA	Homo saplens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sanjene dihariningemide dehadraganan (E2 ganasana 6	glutarate complex, branched chain keto acid dehvdrogenase complex (D) D) mRNA	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	Homo saplens lymphocyte antigen 75 (LY75) mRNA, and translated products	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA	Homo sapiens sepiapterin reductase (7.8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mBNA	Homo sapiens sepiapterin reductase (7.8-dihydrobionterin:NADP+ oxidoredurtses) (SDD) mpNA	801312019F1 NIH MGC 44 Hamo sapiens cDNA clone IMAGE:3658757 5	601142253F1 NIH_MGC_14 Hamo saplens cDNA clone IMAGE:3508029 5'	Human mRNA for HMG-1, complete cds	Human mRNA for HMG-1, complete cds	Human mRNA for HMG-1, complete cds	HUM178G01B Human fetal brain (TFujiwara) Homo sapiens cDNA clone GEN-178G01 5	HUM178G01B Human fetal brain (TFujiwara) Homo saplens cDNA clone GEN-178G015'	UI-H-BW 1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 31	UI-H-BW 1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA	RC5-ST0300-180100-033-A03 ST0300 Homo saplens cDNA	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens oDNA	HSCZQD042 normalized Infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
Top Hit Database Source	EST HUMAN	EST_HUMAN	LN	닏	۲	NT	N	N	¥	LN		TN.	N N	TN	5	Ę	7	EST_HUMAN	EST_HUMAN	TN	جا احا	トフ	ST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	나	누	ST_HUMAN	ST_HUMAN	EST_HUMAN
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Most Similar (Top) Hit BLAST E Value	9.0E-76	9.0E-76	9.0E-76	8.0E-76	8.0E-76	8.0E-76	8.0E-76	8.0E-76	8.0E-76	8.0E-76		7.0E-76	7.0E-76	7.0E-76	7.0E-76	7.0E-76	7.0E-76	6.0E-76	6.0E-76	5.0E-76 D	5.0E-76 D	5.0E-76 D	4.0E-76 D	4.0E-76 D	3.0E-76 B	3.0E-76 B	3.0E-76	3.0E-76	3.0E-76 B	. 3.0E-76 B	3.0E-76 Z41314.1
Expression Signal	1.45	1.16	23.8	1.69	1.69	1.06	5.38	1.3	6.44	1.44		4.12	2.64	7.08	1.1	4.3	4.3	19.65	2.69	3.69	3.69	3.69	5.6	5.6	1.78	1.78	2.78	2.78	4.18	4.18	9.13
ORF SEQ ID NO:	19826											20627	22975	22982	23017	23951	23952		28154	21673	21674	21675	27834	27835	20359	20360	21345	21346	23089	23100	29104
Exen SEQ ID NO:	10026	12244	17547	10848	_			16282				10689	13177	13183	13215	14174	14174	11122	17910	11795	11795	11795	17609	17609	10549	10549	1485	11485	13300	13300	15084
Probe SEQ ID NO:	38	2364	7697	923	923	2880	5744	6421	8057	9636		769	3254	3260	3293	4275	4275	1214	8761	1899	1899	1899	7759	7759	613	613	1581	1581	3382	3382	5204
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Chigas Explicased III Healt	Top Hit Descriptor	Homo sabiens andiostatin hinding protein 1 mBNA complete add	w20a10 r1 Soares melancade 2NhHM James conjunctions Child	xs49h01x1 NCI CGAP KH44 Home contract that the c	245401111 Spares lestis NHT Home capiens CDIVA - 1118 OF THE 2009 3	2V64d1111 Soares testis NHT Home septems CONA Account MACE 777777	EST380059 MAGE resemiences MAG Homo contact and the contact	EST368625 MAGE resembning MAGD Home capiers conva	Human mRNA for possible profein TPRDII complete and	Human mRNA for possible protein TPRDII complete add	Human mRNA for possible probin TBBDII complete cus	Homo sabiens immunodiphulin (CD70A) kinding angles 4 (2005)	Homo sapiens afticación (GCG) mRNA	Homo sapiens cAMP responsive alement trinding posterior of Contract.	Homo sapiens GM2 dandiloside artificiato protein 1 (CKEB1) mKNA	Homo sapiens GM2 candincide activities and Colors	SOUNT of Stratages only being 844 House 1	OF FACTORY RECEDED 1 1/1/2 DECTEN FOR	zw64e02.st Scares_tests NHT Homo saplens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN B18084 INTECEDIA DETAILS CONTINUE TO SW:ITB5_HUMAN	zw64602.s1 Soares, testis, NHT Homo sablens cDNA clone IMAGE-780086.3" cimilar to civilitate illinosasi	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR .	Human mRNA for possible protein TPRDII, complete cds	QV3-QT0028-220300-132-b11 QT0028 Hamo sanians cDNA	Homo sapiens EGF-like repeats and discoidin Filite domains 3 (FDII 3) mBNA	Homo sapiens mRNA for KIAA1081 protein, partial cds	Homo sapiens TPCR86 protein (HSTPCR86P) mRNA	Homo sapiens similar to ribosomel protein S26 (H. seniana) (1 OCE0450)	Homo sapiens HIRA interacting protein 4 (dna Litka) (HIRIDA) mena	Human mRNA for HMG-1 complete cde	Human mRNA for HMG-1, complete cds	601589896F1 NIH MGC 7 Homo saniens CDNA clara MACE 2011202 FI	601512435F1 NIH MGC 71 Horm seniens cDNA Alore INAACE-2042787 F1	601866926F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5
איז ו וויסען סופ	Top Hit Database Source	Z	EST HUMAN	1	Т	1	Т	Т	Т								T HI MAN	Т	T	Т	T_HUMAN	Г	1	5031660 NT	INT TN				TN LN		EST HUMAN 16	EST HUMAN 6	
	Top Hit Acession No.	3.0E-76 AF286598.1	N42671.1		AA442309.1	AA442309.1	4.1			1	-	4657662	4503944 NT	4758053 NT	4504028INT	4504028 NT	2.0E-76 AA253954.1		92.4		32.1	184295.1	W879618.1	5031660	4.1	11427410 NT	11437211 NT	7549807 NT			7.1	5.1	П
	Most Similar (Top) Hit BLAST E Value	3.0E-76	3.0E-76 N42671	3.0E-76	3.0E-76 AA4423(3.0E-76 AA4423(3.0E-76	3.0E-76	2.0E-76 D84295.	2.0E-76 D84295.	2.0E-76 D84295.	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76	2.0E-76/	2.0E-76 P23266	2.0E-76		2.0E-76	2.0E-76 D84295.	2.0E-76 AW8796	2.0E-76	2.0E-76 AB02900	2.0E-76	2.0E-76	2.0E-76	1.0E-76 D63874.1	1.0E-76 D63874.1	1.0E-76 BE79653	9.0E-77 BE88952	8.0E-77 B
	Expression Signal	7.85	1.92	32	1.32	1.32	. 2.13	3.75	1.22	3.66	3.66	2.17	1.07	1.03	1.53	1.53	1.43	2.83	2.01		2.01	0.94	6.33	1.25	4.74	1.79	3.28	2.76	2.18	2.18	5.29	3.98	1.65
	ORF SEQ ID NO:	25861	26806	27667	27684	27685	25062	24895	20065	20112	20113		20320	20778	21281	21282	21658	22536	22979		22980	20065	24527	24710	25432	26554	27988	28416	23881	23882	25093	26119	24101
	Exon SEQ ID NO:	15748	16616	17453	17466	17466	19537	19745	10245	10298	10298	10397	10513	10932	11423	11423	11782	12740	13180		13180	10245	14747	14938	15374	16377	17748	18172	2418	14100	15266	15984	14315
	Probe SEQ ID NO:	5842	6737	7602	7615	7615	9014	9120	780	339	339	453	575	1014	1518	1518	1886	2811	3257	1	253	4043	4867	2068	2453	6518	7898	8293	4200	4200	5345	6137	4421

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Table 4
Single Exon Probes Expressed in Heart

				3 407			
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
5347	15268	25095	2.46	8.0E-77	4506Z30 NT	LN	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mov34 homolog) (PSMD7) mRNA
8691	18578	28861	2.12		8.0E-77 AA019770.1	EST HUMAN	ze62e02.r1 Soares retina N2b4HR Homo sapiens c/NA close IMA CE 288672 51
8691	18578	28862	2.12		8.0E-77 AA019770.1	EST_HUMAN	2962e02.r1 Soares retina N2b4HR Homo saplens cDNA clone IMAGE 363578 F
1776	19289	25232	7.25		8.0E-77 R00245.1	EST HEMAN	ye69f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007.3' similar to contains
1887	11783	21659	3.28		55.1	EST HUMAN	ZUSTOOLS Spares feetie NHT Home emigran ADNA - Land 114 OF - 2 reases
2360	12240	22136	2.1	7.0E-77	4505944	N	Homo sapiens polymerase (RNA) II (DNA directed) polymerate (RNA) II (DNA directed) polymerase (RNA) II (DNA directed) polymerate (RNA directed) polymerate (
2360	12240	22137	2.1	7.0E-77	4505944 NT	N.	Homo sapiens polymerasa (RNA) II (DNA directed) polybeptide E (25KD) (POLKZE) mKNA
262	10227	20043	4.29	6.0E-77	4504600 NT	¥	Homo sepiens interferon (alnba hete and cheese) control of the first from
1125	11040	20882	6.0	6.0E-77	-	EST HUMAN	EST369823 MAGE resentiences MAGE Home continue CNA
1524	11429	21287	17.64	6.0E-77		EST HUMAN	de/7h12.x1 Soares fefai lung NhH 10W Home senions only also live of a serions of the live of the serions of the live of the serions of the live of the serions of the live of the serions
1216	11124	20973	1.78	5.0E-77		IN	7 Homo sapiens glucokinase (GCK) dene evan 2
1337	11243	21101	1.16		4557250	LN LN	Homo sabiens disintegrin and metalloprofesse domain 10 (ADAM40) - DNA
2736	12598	22492	26.0	5.0E-77	4503160 NT	LN LN	Homo sapiens culin 1 (CII 1) mRNA
4605	14493	24280	2.02	5.0E-77		N F	Homo sabiens EGF-like reneats and discording Like domains 2 (EDH 3). — Days
4605	14493	24281	2.02	5.0E-77	5031660 NT	L	Homo sabiens EGF-like repeats and discoidin Like demater 2 (EDIL2), mKIVA
4853	14733	24514	2.05	5.0E-77	AL043953.1	T HUMAN	DKFZD434G1728 r1 434 (synonym: hless) Homo serienc CDNA class DKF7, 10 101 Eng.
6873	16752	26947	1.39	5.0E-77	11428849 NT		Homo sapiens 3-hydroxyisobuhrd-Coenzame A hydrolese (HIDCH) TONA
6873	16752	26948	1.39	5.0E-77	11428849 NT		Homo sapiens 3-hydroxyisobuhryl-Coenzyme A hydrolese (HIBCH), mbira
7519	17338	27543	2.55	5.0E-77	11421928 NT		Homo sapiens sorting nexth 5 (SNXS), mRNA
7519	17338	27544	2.55	5.0E-77	11421928 NT		Homo saplens sorting nexth 5 (SNX5) mRNA
7990	17840	28080	1.96	. 5.0E-77	5.0E-77 AB002297.1	N	Human mRNA for KIAA0299 gene, bartial cds
88	17840	28081	1.96	5.0E-77	5.0E-77 AB002297.1	IN	Human mRNA for KIAA0299 gene, partial cds
1929	11824	21705	1.12	3.0E-77	5730038 NT		Homo saplens SET domain and mariner transcribes fireton con (SETMAD) - DAYA
1829	11824	21706	1.12	3.0E-77	F730038 NT		Homo sapiens SET domain and mariner transposes firefor any (SETT-147). Hith
8249	18129	28377	3.31	3.0E-77	3.0E-77 BF359917.1	T HUMAN	PM3-MT0078-080800-1065-n03 MT0078 Home continue continue of the Carl (MAN) MIKINA
1330	11237	21093	1.71	2.0E-77		EST HUMAN	AV764617 MDS Home sapiens CDNA chara Minorate as Er
1414	11320	21185	1.73	2.0E-77	2.0E-77 AW997712.1	Т	RC3-BN0053-170200-011-010 BN0053 Hama capitate (BNA)
8 4 4	11935	21830	0.84	2.0E-77		Т	Homo sapiens CYP17 gene 5' end
2056	11946	21842	2.64	2.0E-77	7706315 NT		Homo sapiens CGI-79 molein (I OCF4 834) mDNA
2549	12724	22312	2.02	2.0E-77	2.0E-77 AB037836.1		Homo sapiens mRNA for KIAA1415 protein martin ade
2549	12724	22313	2.02	2.0E-77	2.0E-77 AB037836.1		Homo saplens mRNA for KIA415 protein pertial Ad-
							270 FIR FILE (1:00)

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Most Similar								_	٠,			_,			-11 - 41	нн 1)		laul!						water white	
Exon NO: INO: INO: INO: INO: INO: INO: INO:	bes Expressed in Heart	Top Hit Descriptor	ho43b05.xt Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113.3' similar to SW:GAG2 HUMAN P10264 RETROVIRIS.RFI ATED GAG BOLI VEDCTEN.	twzzg0zxt NCI_CGAP_Bm52 Homo sapiens cDNA clone IMAGE:2260486 3' similar to TR:065245	tw22g02x1 NCI_CGAP_Bm52 Homo saplens cDNA clone IMAGE:2260466 3' similar to TR:065245 065245 F21E10.7 PROTEIN .	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein. mRNA	ns68g12.s1 NCI_CGAP_Pr2 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:RL29_HUMAN	601119859F1 NIH MGC 17 Home semines of the contract of the con	601476802F1 NIH MGC 68 Home series a DNA plans NACE 2028436 5	at74a09.xt Barstead colon HPLRBY Homo expires cDNA clone INAGE:2377720.3' similar to TR:Q13311 Q13311 TAX1-8INDING PROTEIN TYRD16-11	Human protein kinasa C substrate 80K. H (DDK/Csu) 2007.	Human protein kinasa C substrate 80K Li (DBI/CEL)	Homo sepiens mRNA for KIAA1278 martein andicid of	Homo saplens mRNA for KIAA1276 matein peritel per	Homo sapiens amyloid beta (A4) precursor protein (protesse nevin II Althouse and II Althouse a	Homo saplans amyloid bela (A4) predirect profession control of the	Homo sapiens amyloid beta (A4) precursor protein (protease nextrall Alzheimer disease) (ADD)DNIA	Homo sanjane amidrid hata (A1) (1-1-1) (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Homo seniens mRNA for KIAA1101 and the market of the marke	Homo sapiens 2 4-dienny CoA ractivises 1 military (NECOS.)	Homo saniens, CGL-80 protein (1 O'CE1628) http://doi.org/10.101/1	Homo sapiens 959 kb contid between AMI 1 and CR81 on chromosome 24-29.	Homo sapiens breast cancer 1, early onset (BRCA1) transcript varient BDCA1	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5 Cardiomyopathy associated cene 5	
Exon No: ORF SEQ Expression Signal No: Most Similar Signal No: Most Similar No: Most Similar No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Most Similar No: No:	gie Exon Pro		EST HUMAN	EST_HUMAN	EST_HUMAN	N TN	EST HUMAN	FST HUMAN	EST HUMAN	EST HUMAN	IN	1 L	LN	N	N	Į.	NT	Ę	L N	NT	N-			T HUMAN	1
Exon No: ORF SEQ Expression (T) Mos Signal (T) Mos S			BE044316.1			4504068	AA653026.1	BE298940.1	BE787143.1	A1833003.1	J50321.1	J50321.1	AB033102.1	AB033102.1		4502166	4502166	4502166	24.1	4503300	7706299	J229041.1	6552322		
Exon SEQ ID NO: Signa NO: NO: NO: Signa NO: NO: NO: Signa 13855 23829 14212 23896 14212 23896 14212 23896 14445 24229 14445 24229 14445 24229 14445 24229 15643 24810 2		Most Similar (Top) Hit BLAST E Value	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	2.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77 /	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	
Exon ORF 13855 14212 14212 14212 15540 10024 10024 10024 10024 12572 2 12935 2 14415 2 2 15043 2 16445 2 15043 2 16445 2 164445 2 164445 2 164445 2 16643 2 16		Expression Signal	1.33	0.89	0.89	3.48	3.58	1.8	45.1	12.74	4.99	4.99	76'0	76.0	1.87	1.87	4.95	4.95	122	2.82	2.99	14.73	1.95	2.89	
		ORF SEQ ID NO:						25629	25761	26276	27564	27565	19821	19822	20054	20055	20635	20636	22168	22727	23930	24103	24229	24810	
Probe SEQ ID NO: NO: 3947 4315 44659 56257 7489 77489 77489 77489 377 271 271 271 271 271 4256 4423 4423 4552 5476		Exon SEQ ID NO:				1	14545	15540	15653	16123	17359	17359	10024	10024	10237	10237	12679	12679	12272	12935	14155	14317	14445	15043	
		Probe SEQ ID NO:	3947	4315	4315	4492	4659	5625	5745	6257	7489	7489	37	37	271	27.1	857	857	2394	3007	4256	4423	4552	5179	,

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Single Exon Probes Expressed in Heart

Top Hit Descriptor	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28	Homo sapiens dynactin 1 (DCTN1) gene. exons 27 and 28	Human von Willebrand factor gene, exon 20	Homo sapiens elastin (supravalvular acritic stenosis. Williams-Beuren swodrome) (El NI) menu	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds.	Homo saplens hu-GlcAT-P mRNA for qucuronytransferase, complete cds	Т	1	Т	Т	Г	Г	Home sapiens hypothetical protein FL/1/316 (FL/1/1318) mRNA			Human collagenase type IV (CLG4) gene, exon 6	Homo sapleris Best's macular dystrophy related protein mRNA nartial cds	Homo saplens transforming growth factor, beta-induced 68kD (TGFRI) mBNA	Г	Т	Г	Novel human gene mapping to chomosome 22		Т	Homo saplens syncytin (LOC30816) mRNA	Homo saplens phosphatidylinositol 4-kinase catalylic appea nolymentide (DIKACA) DMA	Homo sapiens phosphatid/dinosital 4-kinase catalvific alpha polynentida (PIKACA) monin	Homo sapiens hypothetical C2H2 zinc finger projein FI 122504 (FI 122504) mRNA	Homo sapiens hypothetical C2H2 zinc finger protein FL 122504 (FL 122504) mRNA	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds	Human transforming growth factor-beta precursor gene exons 4-5 (and igined matrixe pertities)	Homo sapiens gene for AF-6, complete cds	Homo sapiens eRF1 gene, complete cds
Top Hit Database Source	N F	N	LN LN	노	FZ	본	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	1	N.		EST_HUMAN	NT.	Ŋ	N L	EST HUMAN	II .	EST_HUMAN	TN	EST HUMAN	LN LN	N	NT	N	NT	N	NT	LN T	NT	NT
Top Hit Acession No.	1.0E-77 AF086944.1	1.0E-77 AF086944.1	1.0E-77 M25844.1	5881412	1.0E-77 AB029396.1	1.0E-77 AB029396.1	9.0E-78 AW753302.1	١	8.0E-78 AW947061.1	6.0E-78 AU118789.1	6.0E-78 AU118789.1	11432710 NT			5.0E-78 AW 673424.1	5.0E-78 M55586.1	5.0E-78 AF038536.1	11416585 NT	5.0E-78 AW953120.1	5.0E-78 U60889.1	5.0E-78 BE960836.1	4.0E-78 AL355841.1	4.0E-78 Al985094.1	4.0E-78 AF107405.1	7656876 NT	4505806 NT	4505806 NT	11560151 NT	11560151 NT	8.1			3.0E-78 AF095901.1
Most Similar (Top) Hit BLAST E Value	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	1.0E-77	9.0E-78	8.0E-78	8.0E-78	6.0E-78	6.0E-78	6.0E-78	5.0E-78		5.0E-78	5.0E-78	5.0E-78	5.0E-78	5.0E-78	5.0E-78	5.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	4.0E-78	3.0E-78
Expression Signal	1.93	1.93	1.56	11.39	1.22	1.22	2.53	2.97	2.97	1.83	1.83	2.51	1.1	,	4.1	3.81	2.39	9.35	2.17	6.5	3.75	1.6	1.53	2.21	1.39	1.27	1.27	1.94	1.94	1.97	8	2.85	1.6
ORF SEQ ID NO:	25607	25608	25698		28093	28094			25908	19881	19882		19996		22281	23066	25048	25396	26262		27319	21265	21393	22053	23899	24340	24341	28058	28059	28822	28944	25239	19944
Exon SEQ ID NO:				15957	17852					10084		15855	10182		12389	13259	15243	15343	16110	17125	17126	11406	11533	12154	14125	14550	14550	17817	17817	18538	18656	19224	10129
Probe SEQ ID NO:	5610	5610	5688	6197	8002	8002	8013	5880	2880	80	80	2950	211	į	CLC7	3339	5323	5422	6244	7248	7249	1502	1629	2270	4227	4664	4664	7967	7967	8721	8844	9664	155

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Single Exon Probes Expressed in Heart

					5	אום בעמווו ומי	Single Exoli Plobes Expressed in Real
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
165	10129	L	1.6		3.0E-78 AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
3178	13103		0.91	3.0E-78	4507164 NT	NT	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
4015	13657	23439	0.93	3.0E-78	4507334 NT	N	Homo sapiens synaptojanin 1 (SYNJ1), mRNA
7902	17752		5.56	3.0E-78	3.0E-78 BE144758.1	EST_HUMAN	CM0-HT0180-041099-085-c07 HT0180 Homo sapiens cDNA
8349	18226	28478	5.52	3.0E-78	3.0E-78 BE156318.1	EST HUMAN	QV0-HT0367-150200-114-g09 HT0367 Homo saplens cDNA
3083	13010		2.22	2.0E-78		TN	Homo sapiens type IV collagen alpha 5 chair (COL4A5) gene, exon 20
3932	13841		1.68	2.0E-78		EST_HUMAN	EST182583 Jurkat T-cells VI Homo sapiens cDNA 5' end
6412	16274	26435	1.46	2.0E-78		EST_HUMAN	UI-HF-BK0-aaj-g-10-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA cione IMAGE:3054139 5'
6412	16274	26436	1.46		2.0E-78 AW 402306.1	EST HUMAN	UI-HF-BK0-aaj-g-10-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054139 57
6547	16405	26584	3.88	2.0E-78		EST_HUMAN	602186529F1 NIH_MGC_49 Homo sapiens cDNA clane IMAGE:4298599 5'
6687	16567		2.73	2.0E-78	Γ	EST_HUMAN	AV714177 DCB Homo sapiens cDNA clone DCBAW F09 5'
6921	16799	26991	1.84	2.0E-78	2.0E-78 AI557509.1	EST HUMAN	Pt2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
6921	16799	26992	1.84	2.0E-78	2.0E-78 AI557509.1	EST_HUMAN	Pt2.1_16_B07.r tumor2 Homo sapiens cDNA 3'
							qi50h05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1859961 3' similar to WP:R90.1
8429			4.5	2.0E-78	1	EST_HUMAN	CE06325 PROTEIN KINASE;
8467	18340		3.28	2.0E-78	N66951.1	EST_HUMAN	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
5247	15170	24943	2.9	1.0E-78	11417304 NT	TN	Homo sapiens GAP-like protein (LOC51306), mRNA
6743	16622		1.68	1.0E-78	1.0E-78 U52373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
9189	18924	25350	5.14	1.0E-78	11430460 NT	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
9284	18986	25327	1.26	1.0E-78	11435903 NT	Ł	Homo sapiens similar to lymphocyte activation-associated protein (H. sapiens) (I OC63140) mRNA
4600	14488	24274	4.48	9.0E-79	11525891 NT	N.	Homo sapiens peptide YY (PYY), mRNA
4758	14643		2.48	9.0E-79	<u></u>	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
5335	15255	25078	12.03	9.0E-79		NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
5827	15733	25844	2.18	9.0E-79	5454145 NT	I.V.	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
7243	17120	27315	4.99		9.0E-79 J02853.1	N-	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
7243	17120	27316			9.0E-79 J02853.1	F	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
7953	17803		1.31	9.0E-79		F	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
7953	17803	28043	1.31	9.0E-79	9.0E-79 AF062346.1	N F	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
8419	18293		1.82	9.0E-79	9.0E-79 AY008273.1	님	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
8802	18616			9.0E-79	11423827 NT	MT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
8802	18616			9.0E-79	11	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
9854	19347	25213	1.49	9.0E-79	11417877 NT	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA

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Table 4
Single Exon Probes Expressed in Heart

Single Extra Flobes Explessed III Real	Most Similar (Top) Hit Acession Database No. Source Value	1.2 8.0E-79 AL163210.2 NT Homo capiens chromosome 21 segment HS21C010	8.0E-79 D28476.1 NT	8.0E-79 D28476.1 NT	8.0E-79 8567387 NT	7.0E-79 BE619648.1 EST_HUMAN	6.0E-79 AA699829.1 EST HUMAN	5.0E-79 AL163282.2 NT	4.0E-79 8922325 NT	4.0E-79 BF210869.1 EST HUMAN	3.0E-79 AF114488.1 NT	3.0E-79 AF232708.1 NT	3.0E-79 U09410.1 NT	3.0E-79 AF110322.1 NT	3.0E-79 AB020699.1 NT	3.0E-79 11426770 NT		3.0E-79 AB014520.1 NT	3.0E-79 AB014520.1 NT	2.0E-79 BE379926.1 EST_HUMAN	2.0E-79 4757841 NT	2.0E-79 AI523747.1 EST_HUMAN	2.0E-79 4585863 NT	2.0E-79 4585863 NT	2.0E-79 AJ271408.1 NT	2.0E-79 AF244138.1 NT	2.0E-79 AF170492.1 NT	2.0E-79 AJ271408.1 NT	2.0E-79 AL163206.2 NT	2.0E-79	2.0E-79 7382479 NT	2.0E-79 11427428 NT	
CI BIRING	Top Hit Acession No.	0.2						2.2	8922325	5.1	3.1			2.1	AB020699.1	1	-	0.1	5.1	BE379926.1	4757841	Al523747.1 EST							.2			11	2 AE-70 S72880 4
	Most Signal (Top) Signal BLAST	1.2	0.94	0.94	1.4	6.85 7.0	1.29 6.0	4.15 5.0	1.12 4.0	1.33 4.0	1.4 3.0		1.36	4.52	1.71			j										l			1.83 2.0	2.6 2.0	144
	Exon ORF SEQ ID NO:	13596 23382	14287 24069	14287 24070	15097 24889	13138 22941	18827	18601 28891	13064	14823 24590		10885 20733				j					10836 20685												17658 278a6
	Probe Exon SEQ ID SEQ ID NO: NO:		4391 14	4391 14		3214 13	9040 18	8786 18		4946 14			┙		_1	_1	5525 15	_ [1	_1		\bot	4			2265 12	_]		\dashv		_1		78081 176

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Table 4
Single Exon Probes Expressed in Heart

- !		Т	7	Т	_	_	Т	_	7	7	_				7	—	_	- "	Aur E	٠,	عوث	<u> </u>	-	- 11.	الم	عبط		int.	411	11.411 1
The Land I have a Land I have a Land I have a land I have	Top Hit Descriptor	RC4-BT0310-110300-015-f10 BT0310 Homo sepiens cDNA	RC4-BT0310-110300-015-f10 BT0310 Homo sepiens cDNA	Homo sapiens KJAA0879 protein (KJAA0879), mRNA	Homo sapiens mRNA for KIAA0833 protein, partial cris	Homo sapiens cadherin EGF LAG seven-bass G-tope recentor 1 (CEI SR1) mRNA	MRO-NN0087-260600-017-b10 NN0087 Homo saniens citing	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA	423e05 s1 Soures testis NHT Homo seriens cDNA clone 1343ea8 3'	ai23e05.s1 Soares testis NHT Homo sapiens cDNA clone 1343648 a	601581652F1 NIH MGC 7 Homo sapiens cDNA clone IMAGE:3036061 5	Homo saplens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA	Homo saplens Y chromosome sparmathyranests candidate protein (PBMA) programments	Homo sapiens KIAA0724 dene broduct (KIAA0724) mRNA	Homo sapiens KIAA0724 dene product (KIAA0724) mRNA	Homo sapiens trible functional domain (PTPRF Intersortion) (TRIO) mPNA	Homo sapiens triple functional domain (PTPRF interacting) (TRIO) mRNA	#58402.x1 NC_CGAP_Brrz3 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SI IRI INIT PRECI IRSORD.	Homo sapiens NRD convertase mRNA, complete cds.	Homo sapiens mRNA for KIAA1155 protein, partial cds	Homo sapiens mRNA for KIAA1155 protein, partial cds	Homo sapiens malate dehydrogenase 2. NAD (mitochondrial) (MDH2) mRNA	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)	Homo sapiens tubby like protein 3 (TULP3), mRNA	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA	Homo saplens chromosome 21 segment HS21C101	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gans, exon 21	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BiG1), mRNA
יייי אייי אייי	Top Hit Database Source	EST HUMAN	EST HUMAN	L	N	LN LN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	TN.	TN	N TN	LN L	N F	¥	NT	EST HUMAN	NT	IN	NT	NT	NT	Ę	Ŋ	N.	TN		
5	Top Hit Acession No.	2.0E-79 BE064386.1	2.0E-79 BE064386.1	7662357 NT				1.0E-79 BF087405.1	9.0E-80 AA725848.1	9.0E-80 AA725848.1	3E798603.1	11433924 NT	11433924 NT		11422647 NT	11422647 NT	6005921 NT	6005921 NT	₹:		Ξ.	1.	11421462 NT	6.0E-80 AJ404468.1	11436736 NT	11526464 NT	11526464 NT	.2		11427366 NT
-	Most Similar (Top) Hit BLAST E Value	2.0E-79	2.0E-79	2.0E-79	2.0E-79 AB02064	2.0E-79	1.0E-79 BF36307	1.0E-79	9.0E-80	9.0E-80	9.0E-80 BE798603	9.0E-80	9.0E-80	8.0E-80 U94387.1	8.0E-80	8.0E-80	8.0E-80	8.0E-80	6.0E-80 AI422197	6.0E-80 U64898.1	6.0E-80 AB03298	6.0E-80 AB032981	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80	6.0E-80 AL163301	6.0E-80 U20211.1	6.0E-80
	Expression Signal	4.22	4.22	2.6	4.23	1.96	2.78	2.74	3.79	3.79	1.28	11.05	11.05	0.95	2.83	2.83	1.19	1.19	2.34	2.05	1.09	1.09	4.01	2.56	3.84	3.07	3.07	1.74	1.68	2.91
	ORF SEQ ID NO:		28517	24888		25307			22828	22829	27824	28735	28736		26512	26513	27482	27483	20657	21386	23865	23866	25532	25712	25791	27191	27192	27281	27748	28437
	Exon SEQ ID NO:	18267	18267		18907	19050	19456	18704	13033	13033	17601	18464	18464	13466	16343	16343	17276	17276	10808	11528	14088	14088	15461	15610	15683	17000	17000	17091	17522	18188
	Probe SEQ ID NO:	8391	8391	8078	9161	9391	5971	8894	3107	3107	7751	8597	8597	3551	6485	6485	7409	7409	882	1624	4188	4188	5545	5702	5776	7133	7123	7214	7672	8311

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Table 4
Single Exon Probes Expressed in Heart

Single Exoll Flores Expressed in Realt	Most Similar Top Hit Acession (Top) Hit Top Hit Acession (Top) Hit Top Hit Descriptor Ignal BLAST E No. Source	50.71 6.0E-80 AF226730.1 NT Hamo sapiens Cyt19 mRNA, complete cds	4.98 6.0E-80 AI422197.1 EST_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR.		LN.		6228 NT		5.0E-80 AF108830.1 NT	5.0E-80 X91647.1 NT	5.0E-80 AL163283.2 NT	5.0E-80 U89358.1 NT		5.0E-80 4504292 NT	1.07 5.0E-80 AB019038.1 NT Homo saplens HMT-1 mRNA for beta-1,4 mannosvitransferase, complete cds	1.07 5.0E-80 AB019038.1 NT Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltansferase, complete cds	AL163268.2 NT	1.48 5.0E-80 9910293 NT Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA	HUMAN	4.71 3.0E-80 AL163210.2 INT Homo sapiens chromosome 21 segment HS21C010	3.0E-80 BF085009.1 EST_HUMAN	4.97 3.0E-80 BE817465.1 EST_HUMAN QV4-BN0263-040600-241-910 BN0263 Homo sapiens cDNA		2.0E-80 R35321.1 EST HUMAN	2.0E-80 AI444821.1 EST HUMAN	3.2 EST HUMAN	Т	20E-80 AA393362.1 EST HUMAN	I N	NT NT
		6.0E-80 AF226730		6.0E-80 AF240786.	6.0E-80 AB029900	6.0E-80 AJ133127.		5.0E-80 AF108830.		5.0E-80 X91647.1	5.0E-80 AL163283.	5.0E-80 U89358.1	5.0E-80 AB037855.	5.0E-80 4	5.0E-80 AB019038.	5.0E-80 AB019038.	AL16326		4.0E-80 F25915.1	3.0E-80 AL163210.	3.0E-80 BF085009.	3.0E-80 BE817465.	3.0E-80 A1091675 1	2.0E-80 R35321.1	2.0E-80 AI444821.1	2.0E-80 AL043116.		2.0E-80 AA393362.	1.0E-80 AL163303.	1.0E-80 AF231920.
	Expression (T Signal BL	50.71	1.98	1.62	4.55	2.25	1.11	1.26	1.26	4.77	2.28	0.92	3.98	1.13	1.07	1.07			7.48	4.71	1.43	4.97	2.05			{				
	ORF SEQ ID NO:	78694	20657				20319	20202	20593			22091	22152	22518	23636	23637	24531	26938	27441		24287		25541	21527	21593	21791	26115	28373		20551
	Exon SEQ ID NO:	18425	10808	19562	19037	19686	10511	10745	10745	11084	11345	12192	12260	12626	13861	13861	14752	16745	17237	10181	14498	14701	15470	11656	11713	11901	15979	18123	10296	10712
	Probe SEQ ID NO:	8555	9047	9172	9371	9847	573	817	817	1172	1440	231	2380	2764	3953	3953	4872	9989	7333	210	4610	818	5554	1757	1816	2009	6132	8243	337	782

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Probe SEQ ID NO:	Exan SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
101	11808		3 13	1 0F-80	1 0F-80 A1732658 1	EST HUMAN	nn01f12.x5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR.t1 OFR repetitive element;
4358		24039	96.0	1.0E-80	=	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
5192			76.0	1.0E-80	1.0E-80 AL163278.2	H	Homo sapiens chromosome 21 segment HS21C078
5285		_	5.63	1.0E-80	5.1	EST_HUMAN	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5
5633		25635	6.41	1.0E-80	1.0E-80 L10347.1	NT	Human pro-alpha1 type II collagen (COLZA1) gene exons 1-54, complete cds
5916	15822	25947	1.6	1.0E-80	5174540 NT	IN.	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
6470	L		2.68	1.0E-80	1.0E-80 AI948731.1	EST HUMAN	wq25c05.x1 NCI_CGAP_Kld11 Homo sapiens cDNA clone IMAGE:2472296 3'
6470	L		2.68	1.0E-80		EST_HUMAN	wq25c05x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472286 3'
7350		27417	123	1.0E-80	1.0E-80 AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
7350	L	27418	123	1.0E-80	1.0E-80 AF245219.1	IN	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
7957	L		1.19	1.0E-80	1.0E-80 D63479.2	IN	Homo sapiens mRNA for KIAA0145 protein, partial cds
8044	<u> </u>		7.42	1.0E-80	11641276 NT	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
8044	17935		7.42	1.0E-80	11641276 NT	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
9443	19079	25281	1.45	1.0E-80	11417901 NT	NT	Homo saplens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
9643	19211	25258	1.86	1.0E-80	1.0E-80 AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
9670	19229		1.99	1.0E-80	9.1	TN	Homo sapiens gene for AF-6, complete cds
8071	1 17962	28212	2.33	8.0E-81	8.0E-81 AI251752.1	EST_HUMAN	qh90g05.x1 Scares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854296 3'
8071	17962	28213	2.33	8.0E-81	8.0E-81 AI251752.1	EST_HUMAN	qh90g05.x1 Soares_NFL_T_GBC_S1 Hamo sapiens cDNA clone IMAGE:1854296.3'
8494	18367	28631	4.95		8.0E-81 BE394525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
6300	16164	26321	3.06		7.0E-81 AI822115.1	EST HUMAN	za91c08.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299918 3'
4290	14188	23971	4.84	6.0E-81	6.0E-81 BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5
4290	14188	23972	4.84	6.0E-81	6.0E-81 BE256829.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo saplens cDNA clone IMAGE:3352840 5'
5229	15153	24920	1.93	6.0E-81	4501848 NT	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5229	15153	24921	1.93	6.0E-81	4501848 NT	NT	Homo sepiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7325	17201	27401	1.34	6.0E-81	6.0E-81 AA360017.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' end
9579	19166		1.82	6.0E-81	6.0E-81 BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
9679	19166	26270	1.82	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5
2170	12057	21960	3.14		5.0E-81 BE268042.1	EST HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA done IMAGE:3345480 5
6901	1 16780	26974	3.47	'	5.0E-81 AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
6904	1 16780	26976	3.47	5.0E-81	5.0E-81 AB007923.1	TN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8865		28966		5.0E-81	9506634	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
214	4 10185	19998	0.87	4.0E~81	4.0E-81 AF252257.1 NT	. TN	Homo sapiens CRP2 binding protein mRNA, partial cds

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Table 4
Single Exon Probes Expressed in Heart

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SECD D CREAT CROWN TOP HIT Accession		-		_		_	_	_	_	_		-	_	_		_	_			-11		_									,,,,,,			
Exon NO: ORF SEQ Signal Expression (Top) Hit Signal Most Similar (Top) Hit Value Top Hit Acession (Top) Hit No. 13516 23304 2 1.0E-81 AN960658.1 14308 24091 3.07 1.0E-81 AN960658.1 14308 24091 3.07 1.0E-81 AN960658.1 15206 24982 4.01 1.0E-81 BE047896.1 15206 24982 4.01 1.0E-81 BE047896.1 15206 24982 4.01 1.0E-81 BE04786.1 15206 24982 4.01 1.0E-81 BE04786.1 15206 24983 4.01 1.0E-81 BE04786.1 15206 24983 4.01 1.0E-81 BE04786.1 15208 25450 3.54 1.0E-81 BE04786.1 17482 27702 2.62 1.0E-81 BE043878.1 17669 27702 2.62 1.0E-81 BE043878.1 17690 27702 2.62 1.0E-81 BE043878.1	Top Hit Descriptor	EST372729 MAGE resequences, MAGF Homo sapiens cDNA	2445h09.r1 Soares_pregnant_uterus_NbHPU Homo saplens cDNA clone IMAGE:485625 5' similar to PIR:552437 S52437 CDP-diacvlotvcerol synthese - fruit fiv	1245c04.y1 NCI CGAP Brn52 Homo septients cDNA clone IMAGE-2201528 F	Human aconitate hydratase (ACO2) gene, exon 3	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA	Homo sapiens arm-repeat protein NPRAP/neurotungin (CTNND2) mRNA narital cats	Homo sapiens arm-repeat protein NPRAP/neuroiungin (CTNND2) mRNA partial cds	602137864F1 NIH MGC 83 Homo sapiens cDNA clone IMAGE:4274535 5	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA	601645051F1 NIH MGC 56 Homo sapiens cDNA clone IMAGE:3930228 F	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 51	601343180F1 NIH MGC 53 Homo capiens cDNA clone IMAGE:3685483 5	601577339F1 NIH_MGC_9 Homo sepiens cDNA clone IMAGE:3838280 5'	601577339F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3838280 5'	CM3-NN0059-140400-147-a12 NN0059 Homo sapiens cDNA	MRo-CT0006-250599-019 CT0006 Homo sapiens cDNA	MR0-CT0006-250599-019 CT0006 Hamo saplens cDNA	EST372729 MAGE resequences, MAGF Horno saplens cDNA	601867714F1 NIH MGC_17 Homo saplens cDNA clone IMAGE:4110459 5	Homo saplens phorbolin (similar to apolipoprotein B mRNA editing protein) (D.1742C19.2), mRNA	Homo sapiens HSPC288 mRNA, partial cds	Home sapiens HSPC288 mRNA, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Human CRFB4 gene, partial cds	Homo sapiens mRNA for KIAA1327 protein, partial cds	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mBNA	Homo cariona handhaffaal andain F 100,001 /F1 200,001	From Septems Hypothetical protein FLZ0461 (FLZ20461), mRNA	ou 143630 IFT I VIH _ McFC_bd Homo sapiens cDNA clone IMAGE:3862086 5'	MERCALLA NOT COAR COATT	INVSETTEST NOT COAPT CON HOMO SAPIRITS CLINA CIONE IMAGE:925196 3
Exon NO: ORF SEQ Signal Expression Signal Most Similar Value Most Similar PLASTE Top Hit Acession No. 13616 23304 2 1.0E-81 AW960658.1 14308 24091 3.07 1.0E-81 AW960658.1 14439 24222 7.86 1.0E-81 AW960658.1 15206 24982 4.01 1.0E-81 BE047896.1 15206 24982 4.01 1.0E-81 BE047896.1 15206 24982 4.01 1.0E-81 BE047896.1 15206 24983 4.01 1.0E-81 BE047896.1 15206 24983 4.01 1.0E-81 BE047896.1 15206 24983 4.01 1.0E-81 BF047891.1 15206 24983 3.54 1.0E-81 BF047841.1 15206 24983 3.54 1.0E-81 BF047841.1 17482 27702 2.62 1.0E-81 BF047845.1 17669 27703 2.53 1.0E-81 BF047845.1	Top Hit Database Source	EST_HUMAN	EST HUMAN	EST HUMAN	N	N-	N	NT	NT	EST HUMAN	N	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	F	N	TN	FN	۲	F	F	E	TIV	۱ŀ	EST HOMAN	EST LIMAN	אויאוטנור ו פש
Exon NO: ORF SEQ Expression ID NO: Expression Signal Signal Signal Signal Signal Signal Signal Signal NO: Mos Signal Signal Signal NO: Mos Signal Signal NO: Mos NO: Mos	Top Hit Acession No.	AW960658.1	AA040370.1	BE047996.1	U87928.1		11432966		U52351.1	3F674641.1	11432966	3E958278.1	3E958278.1	3E564367.1	3E744545.1	3E744545.1	4W897550.1	1W844986.1	1W844986.1	AW960658.1	3.1	11418138		6.1	1	1	-	\B037748.1	6745604	8073437	0320702 7.4			1
Exon SEQ ID ORF SEQ Expres NO: 13616 23304 14308 24091 14439 24222 15083 29103 15206 24983 15206 24983 15206 24983 15206 24983 15206 27500 17669 27702 17482 27702 17482 27702 17482 27702 17482 27702 17482 27703 17669 27910 17869 2998 19789 9998 19789 9998 19789 19	Most Similar (Top) Hit BLAST E Value	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	1.0E-81	8.0E-82	8.0E-82	8.0E-82	8.0E-82	8.0E-82	8.0E-82	8.05-82	S OF RO	7 OF 82 F	7.05.82	5 OF 80 /	راسي عيار
Exen SEQ ID ORI NO: 13616 14439 15083 15206 15206 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 15208 10726 10726 10725 11380 11339 12201 13937 12601 13937 12601		2	3.07	7.85	9.03	4.01	4.01	3.54	3.54	3:15	6.4	2.62	2.62	4.81	2.93	2.93	1.46	1.98	1.96	2.42	1.98	3.62	1.87	1.26	1.66	2.17	1.11	1.12	1.24	0.84	1 27	182	0 84	
	ORF SEQ ID NO:																	28568	28569	23304	28915	25325	19789	19789	20044	20566	20645	21244	21400	23825		22495	23713	1
Probe SEQ 1D NO: 3602 3602 5203 5203 5203 5203 5203 5203 5203 52			_									_						_	_						_ }		1				L	1		1
	Probe SEQ ID NO:	3602	4414	4546	5203	5284	5284	5468	5468	5737	6567	7831	7831	7726	7819	7819	8000	8438	8438	8694	8810	9278	12	ξ	88	797	88	1475	1636	4150	1434	2739	4034	

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		T		_	_		-	_		,	_											*,***							
Chigh Land Labressed III near	Top Hit Descriptor	Homo sapiens alpha-tubulin isoform 1 mRNA complete cde	wp75e09x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276	Homo sapiens presenilin-1 gene, exons 1 and 2	Homo sanjens smydyd hata (84)	RC2-BN0120-010-013-4702 BN0130 December (APP), mRNA	Homo sapiens transforming growth factor beta-entitated kinases hindling montain a 77 a 23	ANNUA (I AD I), MININA	indino sapiens amyord beta (A4) precursor protein (protease nextrall, Atzheimer disease) (APP), mRNA	RCR-PT0001-100400-004 Bro Ptono 11	Homo sablens chromosome 21 segment HS24 Cross	RC1-BN0005-260700-018-d04 BN0005 Homo caniens cDNA	Homo sanlane adam/ata malana mata mata mata mata mata mata mata m	Homo saniens perindraphic traceine trac	The state of the s	zn83b04.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565711 5' similar to	Homo sabiens ankvin-like with transmembers of AA Homo sabiens ankvin-like with transmembers of AA Homo sabiens	Homo sapiens mRNA for KIAA1077 housely natiful off-	Homo sapiens mRNA for KIAA1077 protein narial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds	Homo sapiens mRNA for KIAA0999 protein, partial cds	DKFZp434M117_r1 434 (synonym: htes3) Home samens GDNA clone DKFZp4344447 Er	Homo sapiens DNA for amyloid precursor protein, complete ods	Homo sapiens dutamate receptor, ionofirmite, keinate 4 (2018/4), mBAA	Homo sepiens mRNA for KIAA1096 protein narial cds	Homo sapiens mRNA for KIAA1096 protein partial cds	Homo sapiens wbscr1 (WBSCR1) and wbscr5 (WBSCR5) genes, complete cds, alternatively spliced and	Homo contains a trace account of the CZI gene, complete cds	Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF5) mRNA
פור באסוון זמן	Top Hit Database Source	NT	EST HUMAN	NT	LV	EST HUMAN	TN		EST HIMAN	EST HIMAN	LN	EST HUMAN	l L	LN		EST HIMAN	L L	NT.	L	NT	NT	EST_HUMAN			TN.		L		
5	Top Hit Acession No.	AF081484.1	Al937300.1	AF029701.2	4502166 NT	19	5174702 NT	7 A S C C A A A A A A A A A A A A A A A A	3.0E-82 AA725848 1	3.0E-82 AW875073.1	3.0E-82 AL163285.2	3.0E-82 BE813232.1	4501922 NT	5453811 NT		AA135979.1	11425206 NT	. g	3.0E-82 AB029000.1				1	4504116 NT	19.1	19.1	15 1	7580	4507580 NT
	Most Similar (Top) Hit BLAST E	4.0E-82 AF0814	4.0E-82 Al9373(4.0E-82 AF0297	3.0E-82	3.0E-82 BE0057	3.0E-82	4 NF. 82	30F-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82	3.0E-82		3.0E-82 AA1359	3.0E-82	3.0E-82 AB0290(3.0E-82	2.0E-82 /	2.0E-82 /	2.0E-82	2.0E-82 D87675.	2.0E-82	2.0E-82 AB0290	2.0E-82 AB0290	2.0F-82 A	2.0E-82	2.0E-82
	Expression Signal	6.51	6.47	6.19	13.75	2.19	4.44	3 22	13.76	5.47	2.03	1.82	0.9	2.06		0.91	2.84	3.79	3.79	1.92	1.92	1.75	1.14	1.14	0.98	0.98	3.18	1.66	1.66
	ORF SEQ ID NO:	21412	29054		20061	20446	20539	20629		21098		21630	21744			24501	26807	27728	27729	20326	20327	21428	23466	23815	24143	24144	24441	24653	24654
	Exon SEQ ID NO:	11551	18761	19130	10242	10620	10700	10779	10963	11240	11355	11755	11855	13158		14718	16617	17504	17504	19520	10520	11562	13684	4 6 8	14352	14352	14653	14887	14887
	Probe SEQ ID NO:	1647	8954	9519	276	687	220	852	1045	1333	1450	1859	1961	3234		4836	6738	7654	7654	285	282	1860	3772	4140	4458	4458	4768	5013	5013

Page 292 of 413 Table 4 Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | Homo sapiens mRNA for KIAA0727 projein perifial ode | Homo sapiens FAW4A1 splice variant a (FAW4A1) mRNA complete one | Homo sapiens slit (Drosophila) homolog 3 (SLIT3) mRNA | Human endogenous retrovirus-K, LTR U5 and gan gene | Human endogenous retrovirus-K, LTR U5 and gag gene | Homo sapiens CAGF9 mRNA, partial cds | Homo sapiens CAGF9 mRNA, partial cds | 2031d10.s1 Soares parathyroid furnor NSHPA Homo saniens change living MAA CE socione of | 201g09.r1 Scares fetal liver spleen 1NFLS S1 Homo saniens cDNA clone livia CE-1205203.3 | Homo sapiens SRY (sex determining region Y-box 10 (SOX10) mRNA
 | Homo saplens melanoma differentiation associated protein-5 (MDAS) mBNA | 801510859F1 NIH MGC 71 Home saniens 470AA clone IMAGE 2017302 | RC4-BT0310-110300-015-f10 BT0310 Home sabiens cDNA | Homo sapiens mRNA for KIAA0538 protein partial cds | UI-H-BW1-aca-f-03-0-UI s1 NCI CGAP Sub7 Homo saniens cDNA close 1846 CE 2009 4052 21 | Homo sapiens chromosome 21 segment HS21Cn09

 | Homo sapiens chromosome 21 segment HS21Cn46 | 802150403F1 NIH MGC 81 Homo saniens CDNA clams IMAGE: 4204584 F | 601273346F1 NIH MGC 20 Homo saniens CONA clone IMAGE 3644383 F

 | ZB48f12s1 Soares fetal liver spleen 1NFLS Homo sapiens chNA clone IMAGE: 205922 | no12h01.s1 NCI_CGAP_Phe1 Homo saplens cDNA clone IMAGE:1100497 3' stmllar to contains Alu repetitive element; | 7p37a07.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3647893 3' similar to TR:Q9Y3I6 Q9Y3I6
 | Human platelet Glycoprotein IIb (GPIIb) gene exons 2.20 | hf31h03.x1 Sogres, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933525 3' similar to | OV4-ST024-481100-092-485 ST0024-48-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | 259005.51 Spares felal liver saleen 1NEI S St James control CNIA | Homo sapiens hypothetical protein FL.110379 (FL.110379) m.RNA
 | Homo saplens VAMP (vesicle-associated membrane protein) -associated protein A (33kD) (VAPA) mRNA, | and defisition products Homo senions have long even 4 En | Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA |
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 | 20169 | 21515 | 22709 | 22751 | 23231
 | 24928 | 25679 | 26452 |
| Exan
SEQ ID
NO: | 15278 | 15654 | 16713 | 17671 | 17871 | 18493 | 18493 | 18868 | 19205 | 19395
 | 10515 | 11100 | 11171 | 11172 | 17732 | 18016

 | 18250 | 16934 | 11297

 | 12647 | 12764 | 14596
 | 10343 | 11647 | 12912 | 12969 | 13431
 | 15160 | 15579 | 16291 |
| Probe
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NO: | 5358 | 5746 | 6834 | 7821 | 7821 | 8628 | 8628 | 9097 | 9632 | 8823
 | 211 | 1190 | 1264 | 1265 | 7882 | 8128

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Page 293 of 413 Table 4 Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo saplens myomesin (M-protein) 2 (165kD) (MYOM2) mRNA	ab14e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.t2 THR repetitive element :	Homo saplens glutathlone S-transferase theta 2 (GSTT2) and glutathlone S-transferase theta 1 (GSTT1) genes, complete cds	Human succinate dehydrogenase iron-protein subunit (schB) gene exem. 5	Homo sapiens 26S proteasome regulatory subminit (SI IG2) mRNA complete additional and september and	Novel human gene mapping to chomosome X	Homo sapiens catalase (CAT) mRNA	Homo sapiens catalase (CAT) mRNA	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) napa avvn 11	Homo sapiens mannosidase, beta A, Iysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds.	601511580F1 NIH MGC 71 Home sarians cDNA doma MACE: on 2405 F	EST79542 Placenta I Homo sapiens cDNA similar to similar to endomenous natroximis EBVo	np87c07.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1133292 similar to contains THR.t2 THR repetitive element:	ot64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592.3' similar to TR:Q92614 092614 MYELOBI AST KIAA0218	5164905.s1 Soares_festis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614 D92614 MYELORI AST KIAA0348	2948f12.s1 Soares felal liver spleen 1NFI S Home sources CNIA Alexander St.	ROB-ET0046-280600-013-H12 ET0046 Homo sapiens cDNA	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA	Homo sapiens chromosome 21 segment HS210002	Homo sapiens hematopojetic progenitor cell antinen CD34 president (CD34) mBNA	Homo sapiens ankrin repeat-containing protein ASB-2 (LOCS1676) mRNA	lomo sapiens enkyrin repeal-containing protein ASB-2 (1.0C51676) mRNA	lomo saplens myosin, heavy polypeptide 4, skeletal muscle (MYH4) mRNA	domo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4) mRNA	Jomo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds	Aattus norvegicus densin-180 mRNA, complete cds	lomo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
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4.0E-83 AF38331.1 EST_HUMAN 11659<</td> <td>Exon NO: ORF SEQ Signal Expression (Top) Hit Yalue Top Hit Accession (Top) Hit Yalue Top Hit Accession Yalue Top Hit Accession Yalue Yalue Top Hit Accession Yalue Yalue Yalue Top Hit Accession Yalue</td>	Exon NO: ORF SEQ Signal Expression (Top) Hit Value (Top) Hit No. Top Hit Source 17430 27644 6.77 6.0E-83 4605314 NT 18630 27644 6.77 6.0E-83 4605314 NT 18634 2.77 6.0E-83 A4486105.1 EST_HUMAN 18834 3.11 6.0E-83 AF240786.1 NT 12849 2.1 5.0E-83 AF240786.1 NT 13856 24652 10.39 5.0E-83 AF240786.1 NT 14885 24651 10.39 5.0E-83 AF28260.1 NT 14885 24652 10.39 5.0E-83 AF08327.1 NT 14886 24652 10.39 5.0E-83 AF08327.1 NT 14886 24652 10.39 5.0E-83 AF08327.1 NT 10504 4.5 3.0E-83 AF38327.1 NT 11658 21652 1.47 4.0E-83 AF38331.1 EST_HUMAN 11659<	Exon NO: ORF SEQ Signal Expression (Top) Hit Yalue Top Hit Accession (Top) Hit Yalue Top Hit Accession Yalue Top Hit Accession Yalue Yalue Top Hit Accession Yalue Yalue Yalue Top Hit Accession Yalue

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Single Exon Probes Expressed in Heart	ost Similar Top Hit Acession Surce Value	2.0E-83 M22094.1 NT Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end	2.0E-83 M22094.1 NT Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end	AU117659.1 EST_HUMAN	36448 NT	AL134452.1 EST_HUMAN	2.0E-83 AL134452.1 EST HUMAN DKFZp547J135 r1 547 (synonym: hfbr1) Homo sapiens cDNA clone DKFZp547J135 5	FN	1.0E-83 Homo saplens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA	4504326 NT	T LI INTANI	1.0E-33 PERSONAL TOWNING THE TRUIT INC. THE PROPERTY CANDING SEPTEMBERS CONTROL THE INFOCE THE PROPERTY OF THE	AE053768 1 NT	TN I	4502168 NT	Alo27614.1 EST HUMAN	39.1 EST HUMAN	14.1 EST HUMAN	EST_HUMAN	EST_HUMAN	6.0E-84 AL042863.2 EST_HUMAN DKFZp434H0322_r1 434 (symonym: htes3) Homo sapiens cDNA clone DKFZp434H0322 5	8.0E-84 AA897339.1 IEST HUMAN VITAMIN K-DEPENDENT PROTEIN'S PRECTICACION CONTINUADA.	EST HUMAN	9.1 EST HUMAN	EST HUMAN	5.0E-84 AA382811.1 EST_HUMAN EST96094 Testis I Homo sapiens cDNA 5' end	LN.	5.0E-84 11428740 NT Homo sapiens regulatory factor X, 3 (influences HLA class II expression) (RFX3), mRNA	4.0E-84/AB037735.1 NT Homo sapiens mRNA for KIAA1314 protein, partial cds
"		M22094.1	M22094.1	4U117659.1	114364	4L134452.1	1L1344521	\B011399.1	45043	45043	TEDRACIO 4	76623	\F053768 1	725822 1			3E901209.1	3E838864.1	3E838864.1	\A776574.1	\L042863.2	A897339.1	3E810371.1	3E770199.1	\W369812.1			114287	\B037735.1
	Most Similar (Top) Hit BLAST E Value	2.0E-83	2.0E-83	2.0E-83 /	2.0E-83	2.0E-83 /	2.0E-83	2.0E-83/	1.0E-83	1.0F-83	4 05 99 5	101-88	1 0F-83 /	1 0F-R3 7	1.0E-83	1.0E-83.A	7.0E-84 E	6.0E-84 E	6.0E-84 E	6.0E-84	6.0E-84	6.0E-84	8.0E-84 E	6.0E-84 E	6.0E-84	5.0E-84	5.0E-84	5.0E-84	4.0E-84/
	Expression Signal	3.32	3.32	1.21	3.7	1.82	1.82	3.48	16.57	16.57		0.84	3.55	222	1.36	1.75	2.82	4.21	4.21	4.76	6.24	1.7	3.17	1.9	1.94	1.06	1.01	2.76	1.08
	ORF SEQ ID NO:	27845	27846	27920		28422	28423		21152	21153	22379	22872	23491	23826	24461	26057	23425	21028	21029	. 22125		25160	26440	26774		20456		28926	21116
	Exen SEQ ID NO:	17617	17617	17676		18177	18177	19226	11295	11295	424BB	1		1	14674	15926	13639	11180		- 1	15085	15307	16277	16586	18634	10630	12908	18643	11260
	Probe SEQ ID NO:	7167	79/	7826	8223	8238	8298	1996	1390	1390	2620	3146	3793	4151	4789	6022	3727	1273	1273	2348	5206	5388	6415	9029	8821	697	2981	8830	1354

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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	wa76c04.x1 Soarse_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC HUMAN 043847 NARDILYSIN PRECURSOR	Homo sapiens myosin light chain klnase Isoform 2 (MI CK) mRNA complete cds	Human 2,4-dienoyl-CoA reductase gene exons 3 and 4	Homo sapiens protein tyrosine phosphatase, receptor type. G (PTPRG), mRNA	Homo sapiens protein tyrosine phosphatase, receptor type. G (PTPRG), mRNA	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA	Homo sapiens mRNA for KIAA1130 protein, partial cds	Homo sapiens Bach1 protein homolog mRNA, partial cds	Homo capiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens pericentriolar material 1 (PCM1) mRNA	Novel human mRNA containing Zinc finger C2H2 type domains	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCT13, ORCT1 4 genes	(complete cds)	Homo sapiens X-linked Juvenile retinoschisis precursor protein (XLRS1) mRNA, complete cds	wu20d05.x1 Soares Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to gb:L05093 60S RIBOSOMAL PROTEIN L18A (HUMAN):	CM1-BT0795-190600-272-b08 BT0795 Homp seniens CDNA	CM1-BT0785-190600-272-b08 BT0795 Homo sapiens cDNA	Homo sapiens myelin transcription factor 1-like (MYT-1) mRNA complete cds	H.sapiens DNA for endogenous retroviral like element	601887664F1 NIH_MGC_17 Homo sapiens cDNA done IMAGE:4121727 5	601887664F1 NIH_MGC_17 Homo sepiens cDNA done IMAGE:4121727 5	qm87c09.x1 NCI_CGAP_Lu5 Homo saplens cDNA clone IMAGE:1895728 3'	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23.1 :	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to TR:Q9UGS3 Q9UGS3 DJ756G23 1	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds	Homo sapiens tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	Homo sabjens complement commoment 5 (CS) mRNA	am85b11.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
	Top Hit Database Source	EST HUMAN	NT	N	F	F	ĮN	TN	N	E	Ę	N I	P.		۲	NT	EST_HUMAN	EST HUMAN	EST HUMAN	NT	F	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	L	 		T_HUMAN
	Top Hit Acession No.	4.0E-84 Al685321.1	4.0E-84 AF069601.2	U94982.1	11386168 NT	11386168 NT	AF059650.1	11421326 NT	AB032956.1	AF026200.1	4758081 NT	5453855 NT	3.0E-84 AL096880.1			3.0E-84 AF014459.1	Al983801.1	17.1			1	18.1	8.1	1.1	2.0E-84 BF448000.1	2.0E-84 BF448000.1		4507952 NT	11427631 NT	79.1
	Most Similar (Top) Hit BLAST E Value	4.0E-84	4.0E-84	4.0E-84 U94982.	4.0E-84	4.0E-84	4.0E-84 AF0596	4.0E-84	4.0E-84 AB0329	3.0E-84 AF0262(3.0E-84	3.0E-84	3.0E-84		3.0E-84 AB02689	3.0E-84	3.0E-84 A198380	2.0E-84 BE69538	2.0E-84	2.0E-84	2.0E-84 X89211.	2.0E-84 BF30851	2.0E-84 BF3085	2.0E-84 A1298674	2.0E-84	2.0E-84 [1.0E-84	1.0E-84	1.0E-84	1.0E-84 AA98437
	Expression Signal	4.03	1.76	1.27	1.31	1.31	2.35	12.16	6.56	1.36	0.89	1.15	3.03		1.18	4.11	7.8	5.89	68.9	9.55	0.93	1.11	1.11	1.67	1.89	1.89	1.53	5.2	0.99	1.92
	ORF SEQ ID NO:	21151	24529		25388			26543				21690	21745			23389		21845		22640	22659	24364	24365		25334	25335	20090	20290		21026
	Exon SEQ ID NO:	11294	14749	14930	15336	15336	15697	16366	18169	10275	11051	11812	11856		13458	13602	18133	11948	11948	12840	12859	14568	14568	16575	19003	19003	10271	10478	10636	11178
	Probe SEQ ID NO:	1389	4869	2060	5416	5416	5791	6507	8290	313	1137	1917	1962		3542	3689	8253	2058	2058	2913	2932	4682	4682	6695	9308	9308	309	537	703	1271

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	1601308006F1 NIH MGC 44 Homo saniams CNV A clone IMA CE 26267 F1	Homo sabiens bencentriolar material 4 (PCMA) mPNA	IW12806.ST NG CGAP SST Home seniens contact that CE 1020408 31	Homo sapiens 959 kb confid behaves AMI 1 and CBR1 on chromosome 24-25.	DKFZp434N0323 r1 434 (synonym: hiess) Homo seriens CDNA down DK EZ-40 Magas F:	DKFZp434N0323 r1 434 (swnonym: https://www.emiens.chin.k.chin.chin.chin.chin.chin.chin.chin.chin	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21429:	uterine water channel≕28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nfi	Novel human dene manning to chomosome 13	Novel human dene manning in chomosome 13	Novel human dene manning to chomosome 13	Homo saplens bolymerase (DNA directed) alpha (DOI A) DAIA	Homo saplens NGFI-A binding profein 1 (FRG1 hinding profein 1 /NAB41)	Homo saplens nuclear transport factor 2 (placental protein 15) (19515), mKNA	Homo sapiens ubiquitin specific professe 13 (isoneritidese 7.3) (15013)	Homo sapiens ubiquitin specific professe 13 (isopertifiese T-3) [150/3] mony	Homo sablens burinerrole recentor POX. like 4 companion to 7 (2011) 13 mars	Homo sapiens aconitase 2, miliochondrial (ACO2) mRNA	Homo sapiens chromosome 21 segment HS21Chno	Homo sapiens nuclear prolein Skip mRNA complete cde	Homo sapiens nuclear protein Skip mRNA, complete cds	Human plasminogen gene, exon 7	Human plasminogen gene, exon 7	Homo sapiens DKFZp434P211 protein (DKFZP434P211) mRNA	Homo sapiens chromosome 21 segment HS21 CORO	Homo sapiens heat shock transcription feather 2 blacking accepts. The control of the control of	Homo sapiens chromosome 21 segment HS21Ches	Homo sapiens DKFZo434P211 protein (DKFZp434D241) DNIA	Homo sapiens ribosomal protein I 27 mBNA complete cde	Homo saplens MSTP030 mRNA, complete cis	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box bot/vebtide 10 (RNA helirase) (DDX11) mBNA
JIO EXON Pro	Top Hit Database Source	EST HUMAN) L	EST HUMAN	N	EST HUMAN	EST HUMAN	N	l L	IN	N TN	NT	누	F	F	5	F	5	5	LN	N	F	NT			L N					FN.	
ino	Top Hit Acession No.	BE392137.1		851.1	1.11	14.2	1.0E-84 AL043314.2		1.0E-84 S73482.1	-	84.1	84.1	3994	11430846 NT	5031984 NT	4507848 NT	4507848 NT	11417812 NT	11418185 NT	9.0E-85 AL163209.2				.1	7657020 NT	9.0E-85 AL163280.2	5901979 NT	38.2	7657020 NT		10.1	11438573 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-84	1.0E-84	1.0E-84 AA720	1.0E-84 AJ2290	1.0E-84 AL 0433	1.0E-84	1.0E-84	1.0E-84	1.0E-84 AL0497	1.0E-84 AL0497	1.0E-84 AL0497	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	1.0E-84	9.0E-85	9.0E-85 U51432	9.0E-85 U51432.1	9.0E-85 M33282.1	9.0E-85 M33282	9.0E-85	9.0E-85	9.0E-85	9.0E-85 AL 1632	9.0E-85	7.0E-85 L05094	7.0E-85 AF1132	6.0E-85
	Expression Signal	3.13	1.08	2.14	5.59	3.82	3.82	4.29	1.52	1.49	1.49	1.96	3.12	1.8	2.45	1.85	1.85	2.98	9.8	1.17	2.3	2.3	1.07	1.07	4.93	0.94	1.14	1.01	1.27	3.24	5.81	2.56
	ORF SEQ ID NO:		21964		23998	24275	24276	23998	25773	26143	26144	26236	26439	26490		24884	24885		25330		20816	20817	21322	21323	21417	23832	24449	24491	21417	20877		28819
	Exan SEQ ID NO:		12063		14216	14489	14489	14216	15665	16007	16007	16086	16276	16324	17365	15091	15091	18925	18998	10875	10974	10974	11465	11465	11554	14058	14662	14707	11554	11035	18718	18535
	Probe SEQ ID NO:	2008	2176	3691	4319	4601	4601	4823	5757	6113	6113	6220	6414	9483	7495	7639	7639	919	9538	951	1057	105/	300	300	1651	4158	4778	4825	9819	1730	8910	8718

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Single Exon Probes Expressed in Heart

1			$\overline{}$	Ť	Т	Т	Т	Т	\top	Т	Т	\neg	_	Т	_	7	-#	-1"	,,, ₀	٣٢	Ή.				" "	nu r	Ť	an e	1.50	7-41
	Top Hit Descriptor	Homo sapiens DEAD/H (Astr-Gir-Alt-Astr-His) hav not months at 10 / DNA buttered.) viscons and series of the same o	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens mannosidase, beta A, Iysosomai (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens T-twoe calcium channel ainhiat eithinit Ainhed a incform (CACNIA4).	602084730F1 NIH MGC 83 Home senions of the live that class that class the control of the control	602084730F1 NIH MGC 83 Homo sapiens cDNA clone IMAGE-4246087 F	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA	HSDHEGC03 Strategene cDNA library Human heart cartt8336208 Home servious CDNA class LIFO009	Homo saplens protein phosphatase 2A RR gamma subrinit game aven 6	ve53d09.r/ Soares fetal liver spleen 1NFI S. Homos senions gone, constitution in ACE 472E04.E1	601189704F2 NIH MGC 7 Homo sepiens cDNA clone IMAGE SESSARIA F	Homo sapiens F-box only protein 24 (FBXO24), mRNA	Homo sapiens F-box only protein 24 (FBXO24) mRNA	Homo sapiens mRNA for KIAA1563 protein partial ods	Homo sapiens offactory receptor, family 12, subfamily D, member 2 (OR12D2), mBNA	Homo sapiens KIAA0793 gene product (KIAA0793) mRNA	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA	Homo saplens mRNA for dynein heavy chain (DNAH9 nene)	Homo sapiens DENN mRNA, complete cds	Homo sapiens phospholipase C, epsilon (PLCE), mRNA	Homo sapiens EGF-like repeats and discoidin Like domeins 3 (FDII 3) mRNA	Homo sapiens Ran GTPase activating protein 1 (RANGAP1). mRNA	Homo sapiens KIAA0929 profein Mev2 interseding and section and an analysis of the section of the	Homo sapiens intersectin 2 (SH3D48) mRNA Asmulata add	Homo sapiens apolipoprotein C.II (APOC2) mRN/4	Homo sapiens apolipoprotein C-II (APOC2) mRNA	Human DNA polymerase beta gene, exons 12 and 13	Homo sapiens similar to rat integral membrane alvontratein POM/12/1/DON/12/1/1/ DN/4	Homo sapiens plasminogen (PLG) mRNA
21 1122	Top Hit Database Source	Į.	NT	Ν	IN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	IN	EST HUMAN	EST HUMAN	N	NT	NT	NT	IN	LN LN	N	N	FN	N	NT	I I	LN L	LN LN	N L	NT	NT	NT
	Top Hit Acession No.	11438573 NT	5.0E-85 AL163284.2	5.0E-85 AF224669.1	5.0E-85 AF211189.1	4.0E-85 BF677910.1	3F677910.1	4.0E-85 BE079263.1		7.1	l	3.0E-85 BE267189.1	11024695 NT	11024695 NT	3.0E-85 AB046783.1	7363442 NT	7662309 NT	7662309 NT	3.1		11430889 NT	5031660 NT	11418177 NT	7657266 NT		5174775	5174775 NT		7657468 NT	4505880 NT
	Most Similar (Top) Hit BLAST E Value	6.0E-85		5.0E-85	5.0E-85	4.0E-85	4.0E-85 BF67791	4.0E-85	4.0E-85 Z18867.1	3.0E-85	3.0E-85 T97495.1	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85	3.0E-85 AJ40446	3.0E-85 U44953.1	3.0E-85	3.0E-85	3.0E-85	2.0E-85	2.0E-85 AF24854(2.0E-85	2.0E-85	2.0E-85 U10525.1	2.0E-85	2.0E-85
	Expression Signal	2.56	1.21	1.9	2.45	1.66	1.66	1.68	1.97	1.15	3.37	0.94	1.73	1.73	8.66	0.94	6,94	6.94	7.04	1.61	4.06	2.28	2.66	0.87	1.85	7.1	7.1	212	4.24	5.42
	ORF SEQ ID NO:	28820	22066	28598			25752			21035	21509	23894	24475	24476	24523	24540	25739	25740		26663	27256	28901		20719	20786	21164	21165	21972		23913
	Exan SEQ ID NO:	18535	12168	18335	15094	15646	15646	17867	19549	11185	11642	14117	14689	14689	14744	14764	15636	15636	16025	16474	17067	18610	19298	10871	10942	11305	11305	12070	11222	14138
	Probe SEQ ID NO:	8718	2285	8462	9886	2738	5738	8017	9237	1277	1741	4219	4805	4805	4864	4883	6729	6229	6152	6594	7190	8796	9788	947	1024	1400	1400	2183	2793	4239

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ORF SEQ Expression (Top) Hit Top Hit Acession Database ID NO: Signal Value	705 24489 1.3 2.0E-85 AL163284.2 NT Homo sapiens chromosome 21 segment HS21C084	209 27408 1.29 2.0E-85 A1760820.1 EST_HUMAN MSR1 repetitive element;	2.44 1.0E-85 BE794306.1 EST_HUMAN	22121 8.09 1.0E-85 BE618392.1 EST_HUMAN	22122 8.09 1.0E-85 BE618392.1 EST_HUMAN	27704 2.06 1.0E-85 BE257917.1 EST_HUMAN	28419 2.56 1.0E-85 AA778785.1 [EST_HUMAN	28420 2.56 1.0E-85 AA778785.1 EST_HUMAN	28492 2.28 1.0E-85 BF311552.1 EST_HUMAN	28493 2.28 1.0E-85 BF311652.1 EST_HUMAN	25283 2.7 1.0E-85 11417862 NT	25283 3.43 1.0E-85 11417862 NT	7.66 9.0E-86 BE274217.1 EST_HUMAN	20001 1.3 7.0E-86 7662247 NT	20691 1.33 7.0E-86 AAB60801.1 EST_HUMAN	20692 1.33 7.0E-86 AA860801.1 EST_HUMAN	121 24865 6.91 7.0E-86 11421737 NT Homo sapiens Text (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA	27148 2.91 7.0E-86 L38557.1 NT	1.63 7.0E-86 5453997 NT	27696 2.35 7.0E-86 11526307(NT	28455 2.15 7.0E-86 11417012 NT	28456 2.15 7.0E-86 11417012 NT	21027 9.33 6.0E-86 4505492 NT	19993 1.48 4.0E-86 BE547173.1 EST_HUMAN	25686 10.18 4.0E-86 BE295843.1 EST_HUMAN	19993 1.9 4.0E-86 BE547173.1 EST_HUMAN	355 25411 6.02 3.0E-86 AW340946.1 EST_HUMAN x92h12.x1 NOI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'	27963 3.31 3.0E-86 BE886479.1 EST_HUMAN	27964 3.31 3.0E-86 BE886479.1 EST_HUMAN	28125 9.01 3.0E-86 Al659240.1 EST_HUMAN	560 2.02 3.0E-86 BE410354.1 EST_HUMAN 601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'		
														20001			24865															20046	
Probe Exon SEQ ID SEQ ID NO: NO:	4822 14705	7341 17209	2241 12125	2344 12224	2344 12224	7632 17483	8296 18175		8365 18242		9194 19082	9448 19082	1410 11315	220 10190	921 10845	921 10845	6164 15121	7078 16955	7593 17444	7624 17475	8329 18206	8329 18206	1272 11179	204 10175	5677 15586	8567 10175	5435 15355	7868 17718	7868 17718	8734 17883	9163 19560	266 10231	

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	Top Hit Descriptor	yz19a08.r1 Soares_multiple_sclerosis_2NbHMSP Homo sapiens cDNA clone IMAGE:283478 6	rovirus, complete genome	ır KIAA1277 protein, partial cds	equences, MAGI Homo sapiens cDNA	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAT-delta) mRNA, complete cds	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAT-delta) mRNA, complete cds	hd87g08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2916542 3	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds	ling phospholipase c	Ing phospholipase c	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA	Homo saplens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase)		Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA	tix-loop-hetix-PAS protein (NPAS3), mRNA	tix-loop-helix-PAS protein (NPAS3), mRNA	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5) mRNA	utoantigen 70kD (Ku antigen) (G22P1), mRNA	AF-6, complete cds	jic, beta, receptor kinase 2 (ADRBK2), mRNA	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (76kD) (NADH-coenzyme Q reductase) (NDUFS1) mRNA	(FBLN5) mRNA	у transpeptidase mRNA, complete cds	some 21 segment HS21C009	some 21 segment HS21C009	tical protein (LOC51318), mRNA	tical protein (LOC51318), mRNA	some 21 segment HS21C100	Homo sapiens FK506-binding protein FKB23 isoform mRNA, complete cds	some 21 segment HS21C084	qb77c09.xt Soares_fetal_heart_NbHH19W Homo saplens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10;
manual ma	Top Hit De	18.r1 Soares_multiple_sclerosis_2NbHMSP Homo	Human endogenous refrovirus, complete genome	Homo sapiens mRNA for KIAA1277 protein, partial cds	EST378215 MAGE resequences, MAGI Homo sapiens cDNA	sapiens lysophosphatidic acid acytransferase-delt	sapiens lysophosphatidic acid acyltransferase-delt	08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clon	sapiens cAMP-specific phosphodiesterase 8A (PL	H.sapiens mRNA encoding phospholipase c	H.sapiens mRNA encoding phospholipase c	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dic (BBOX), mRNA	saplens butyrobetaine (gamma), 2-oxoglutarate dic	(BBOX), mRNA	sapiens chromosome segregation 1 (yeast homolo	Homo sapiens basic-helix-loop-helix-PAS protain (NPAS3), mRNA	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA	sapiens ribosomal protein S6 kinase, 90kD, polype	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo sapiens gene for AF-6, complete cds	Homo sapiens adrenergic, beta, receptor kinase 2 (ADRBK2), mRNA	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S (NDUFS1) mRNA	Homo sapiens fibulin 5 (FBLN5) mRNA	Human gamma-glutamy transpeptidase mRNA, complete cds	Homo sapiens chromosome 21 segment HS210009	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens hypothetical protein (LOC51318), mRNA	Homo sapiens hypothetical protein (LOC51318), mRNA	Homo sapiens chromosome 21 segment HS21C100	sapiens FK506-binding protein FKB23 isoform m	Homo sapiens chromosome 21 segment HS21C084	qb77c09.x1 Soares_fetal_heart_NbHH19W Homo saplens cDNA clone SW:K1CJ_MOUSE_P02535 KERATIN, TYPE I CYTOSKELETAL 10;
Siligie Lyon I lobe spilis	Top Hit Database Source	HUMAN	Humar		EST_HUMAN EST37	Homo		HUMAN									Homo															qb77c EST_HUMAN SW:K
algillo	Top Hit Acession No.	158977.1 EST	9635487 NT		2.0E-86 AW966142.1 EST	1	1	1.7	1.1		716411.1 NT	11437135 NT		11437135 NT	11422084 NT	11545846 NT	11545846 NT	4759051 NT	11418189 NT	2.0E-86 AB011399.1 NT	11417883 NT	4826855 NT	5453649 NT		AL163209.2 NT	1.0E-86 AL163209.2 NT	6161	7706161 NT	1.0E-86 AL163300.2 NT	1.0E-86 AF100751.1 NT	1.0E-86 AL163284.2 NT	9.0E-87 AI150703.1 ES
	Most Similar (Top) Hit BLAST E Value	2.0E-86 N58977.1	2.0E-86	2.0E-86 AB033103	2.0E-86 A	2.0E-86 AF156776	2.0E-86 AF156776.	2.0E-86 A	2.0E-86 AF056490.	2.0E-86 Z16411.1	2.0E-86 Z16411.1	2.0F-86		2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	2.0E-86	1.0E-86								1.0E-86		
	Expression Signal	2.18	2.37	1.12	1.43	2.16	2.16	2.42	2.8	1.53	1.53	200		2.22	1.95	2.69	2.69	1.83	2.4	1.81	1.47	3.1	2.06	2.42	1.32	1.32				1.11	2.15	1.47
	ORF SEQ ID NO:	20929	21930	22011	23087	23385	23386			25571				27058		L			25250		25139	21343			١							
	Exon SEQ ID NO:	11085	12032	12107	١.	13599		13862	<u> </u>	15495	15495	١		16864	1_		L	乚			19520	11483	1				L	1	_	L	L	1. 1
	Probe SEQ ID NO:	1173	2144	2222	3369	3686	3686	3954	4679	5580	5580	6087	7080	6987	7372	7969	7969	8276	9096	9772	9955	1570	3125	3197	3256	3256	3864	3864	4167	4832	8882	5287

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Single Exon Probes Expressed in near	Top Hit Acession Database No. Source	1 EST_HUMAN	2.0E-87 BE734190.1 EST_HUMAN 601569041F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'	2.0E-87 BE734190.1 EST_HUMAN 601569041F1 NIH_MGC_21 Homo saplens cDNA clone IMAGE:3843730 5	1 EST_HUMAN	2.1 EST_HUMAN	2.0E-87 N48128.1 EST_HUMAN yv21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5	EST_HUMAN		1 EST_HUMAN	7705683 NT	:1 EST_HUMAN	7.1 EST_HUMAN		4768827 NT	NT N	1.0E-87 AF973371.1 NT Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8	1.0E-87 AF073371.1 NT Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8	431590 NT	1.0E-87 AF214562.1 NT Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds	1 NT	I NT	.1 EST_HUMAN	T_HUMAN	5729867 NT		657632 NT	1 NT	NT	1 NT	9.0E-88 AL163209.2 NT Homo sapiens chromosome 21 segment HS21C009	9.0E-88 X91929.1 NT H.sapiens ECE-1 gene (exon 9)	9.0E-88 X91929.1 NT H.sapiens ECE-1 gene (exon 9)	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
eignic	Cop Hit Acession No.	-	1	.1	1	1				1		.1	.1		1758827		.1	.1	431590	1		+	1	.1	5729867 NT		657632	.1			2			
	Most Similar (Top) Hit BLAST E Value	2.0E-87	2.0E-87	2.0E-87	2.0E-87	2.0E-87	2.0E-87 N	2.0E-87 N	2.0E-87	2.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	1.0E-87	9.0E-88	9.0E-88	9.0E-88	9.0E-88	9.0E-88	9.0E-88	9.0E-88
	Expression Signal	0.8	78.7	78.7	6.27	1.51	32.21	28.31	3.81	5.11	2.33	0.94	0.94	3.18	2.47	1.04	3.39	3.39	1.6	13.13	1.19	1.19	2.77	2.77	2.06	.1.78	2.02	7.39	2	2	1.13	2.64	2.64	1.23
	ORF SEQ ID NO:	24537	25457	25458		26275		26564	26966			21181	21182	23349	23374		25788	25789	26398	26793	27233	27234	27620	27621	28249			20847	21090	21091			23848	24580
	Exon SEQ ID NO:	14760	15393	15393	16725	16122	16268	16385	16771	17485	12645	11318	11318	13563	13587	L	15681	15681	16238	16604	17042	17042	17405	17405	18003	18244	19761	11006	11234	11234	13488	14072	14072	14812
	Probe SEQ ID NO:	4880	5473	5473	5819	6256	6407	9299	6892	7634	1165	1413	1413	3649	3673	5057	5774	5774	6376	6724	7165	7165	7554	7554	8114	8367	9539	1090	1327	1327	3574	4172	4172	4934

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Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Vatue	Top Hit Acessian No.	Top Hit Database Source	Top Hit Descriptor
17093	3 27284	3.69	6.0E-88	AF003528.1	¥	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
11685		1.19	5.0E-88	7661887 NT	Į.	Homo saplens KIAA0063 gene product (KIAA0063), mRNA
12470	22366	3	5.0E-88	5.0E-88 N89399.1	EST HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
12897		0.92		3.1	N	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
12905	5 22704	0.94			LN LN	Homo saplens intersectin short isoform (ITSN) mRNA, complete cds
12905				5.0E-88 AF114488.1	Z	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
		700	L			wd88h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' sImilar to contains Alu
13263	7 22242	2.31	3.0E-88	5.0E-88 A1693217.1	ESI HUMAN	repeative element, contains element in ERZZ MERZZ repeative element; Homo sonlare, intercedin chort isoform (TEAN) mBNA complete add
			20.00	1		The appeals increase it is a second of the s
14519	24310	0.87	5.05-48	5.0E-88 AF-114488.1	EST LIMAN	Homo sapiens intersectin short isotorm (TLSN) mikinA, complete cds
7470			3.0E-88		ESI HUMAN	ymodo iv.; i soares imain diam imb momo sapiens quina cigne image: 4/129 5 Hans contra a brancos of comment 1004/204
2001				, i	NAME OF THE PARTY.	Homo septens anomosome 21 segment H521 CU84
11214	21070	1.04		4.0E-88 BF091229.1	ESI HOMAN	PMT-TN0028-050900-004-TU IN0028 Home sapiens cDINA
18150			A OF AB	AARRE		Homo satient transforming provide factor betwindured 68kD (TOERI) mRNA
18160			4.0E-88		12	Homo sapiens cell division cycle 10 (homologous to CDC/10 of S. cerevislae) (CDC/10) mRNA
18595			4.0E-88		LN FN	Homo saplens KIAA0152 gene product (KIAA0152), mRNA
18595	5 28884		4.0E-88		F.	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
10647	7 20475	0.93		11545800 NT	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
11669) e	4.77	3.0E-88	4508020 NT	LN	Homo saplens zinc finger protein 259 (ZNF259) mRNA
12845	5 22647	4.31	3.0E-88	N66951.1	EST HUMAN	za48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295823 3'
14047		1.21	3.0E-88	,	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
14047	7 23820	1.21	3.0E-88	4501912 NT	TN	Homo sapiens a disIntegrin and metalloproteinase domain 23 (ADAM23) mRNA
14276	3	3.17	3.0E-88	11429300 NT	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
15166	5 24937	4.09	3.0E-88	11429567 NT	NT	Homo sapiens valosin-containing protein (VCP), mRNA
15349	9 25403	3.84	3.0E-88	TN 888888	LX.	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
15417				11420697 NT	ĮŅ.	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
15964	4 26098	12.03		3.0E-88 AF279265.1	IN	Homo sapiens putative anion transporter 1 mRNA, complete cds
16313	3 26479	99'9	3.0E-88	11436400 NT	N.	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
16500	0 26688	8.52	3.0E-88	11421726 NT	¥	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5). mRNA

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens motybdenum cofactor biosynthesis protein A and motybdenum cofactor biosynthesis protein C mRNA, complete cds	Homo sapiens v-ets avian erythroblastosis virus E28 oncogene related (ERG), mRNA	Homo saplens transcobalamin II; macrocytic anemia (TON2), mRNA	Homo sapiens Calsenilin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds	Homo sapiens dyneln, axonemal, light polypeptide 4 (DNAL4), mRNA	UI-H-BI1-asa-d-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'	UI-H-BI1-aea-d-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA done IMAGE:2718750 3'	Homo saplens KIAA0417 mRNA, complete cds	Homo sapiens KIAA0417 mRNA, complete cds	aa54a11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:80272.2	DKFZp434N0323 r1 434 (synonym: htes3) Homo saciens cDNA clone DKFZp434Nn323 5	os91g03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612766 3' similar to gb:M16342	Homo sapiens chromosome 21 segment HS210046	American femoratics of TACOMS	From Septens densgen z (1 Active), many 601142409F1 NIH MGC 14 Homo sepiens cDNA clone IMAGE 3506186 5	Homo sapiens hormonally uprequiated neu tumor-associated kinase (HUNK) mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens complement component 8, beta polypeptide (C8B) mRNA	DKFZp434E246_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434E246 5'	H.sapiens CLN3 gene, complete CDS	H.saplens CLN3 gene, complete CDS	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA	H.sapiens Wee1 hu gene	H.sapiens Wee1 hu gene	Homo saplens mRNA for KIAA0823 protein, partial cds	Homo sapiens mRNA for KIAA0823 protein, partial cds	Human aconitate hydratase (ACO2) gene, exon 2	Homo saplens Inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA
le Exon Prop	Top Hit Database Source	N	N-		TN	TN	NT			EST_HUMAN	NT	날	EST HIMAN	Т		EST TOWAN		T HUMAN				EST_HUMAN	NT	님		N FA	NT	TN				
Sing	Top Hit Acessian No.	1.4	11526262 NT	11417974 NT	7305198 NT	9.1	9.1	5031666 NT		1.0E-88 AW 139565.1	7.1	7.1	1 0E-88 AA488084 1	T		5.7	4404000	8.0E-89 BE311557.1 ES	7213	7857213 NT	4557390 NT	8.1			11420754 NT			7.0E-89 AB020630.1	0.1	U87927.1	5803114 NT	4506124 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-88 AF03437	3.0E-88	3.0E-88	2.0E-88	2.0E-88 AF24621	2.0E-88 AF24621	2.0E-88	1.0E-88 AW 1395	1.0E-88	1.0E-88 AB00787	1.0E-88 AB00787	4 0E-88 /	1.0E-88 AL04331	10 P	1.0E-88 AI 16324	100	8.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89	7.0E-89 X99832.1	7.0E-89 X99832.	7.0E-89	7.0E-89 X62048.1	7.0E-89 X62048.1	7.0E-89	7.0E-89		6.0E-89	6.0E-89
	Expression Signal	1.41	2.12	4.78	1.42	0.93	4.19	1.93	4.98	4.98	17.59	17.59	4.08	2.95	6	2.98	5,7	1,41	1.35	1.35	2.94	5.14	1.35	1.35	1.78	1.42	1.42	1.17	1.17	3.07	1.07	1.12
-	ORF SEQ ID NO:	26836	26626		20780	21372	21486	24007	25597	25598	26033	26034	28282	27584	0.00	00107	7777	22459	20194	20195	24457	24511	25076	25077	26450	28097	28098	28107	28108		20768	21954
	Exan SEQ ID NO:	16648	16440	18988	10938	11512	11617	14225	15518	15518	15909	15909	1612B	17375	7,007.4	19117	10100	12568	10371	10371	14670	14728	15254	15254	16289	17856	17856	17862	17862	19393	10924	12053
	Probe SEQ ID NO:	6769	7427	9286	1020	1607	1716	4328	5604	5604	6004	6004	6263	7524	9772	9502	8224	2705	426	426	4785	4847	5334	5334	6428	8008	8008	8012	8012	9920	1006	2188

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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	hr81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:054778 054778 SOLUTE CARRIER FAMILY 22 -LIKE 2 PROTEIN :	In81d09.X1 NGL_CGAP_Kld11 Homo saplens cDNA clone IMAGE:3134897 3' similar to TR:054778 054778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTFIN .	Homo sapiens chromosome 21 segment HS210046	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21C046	7e36f08.x1 NCI CGAP Lu24 Homo sapiens cDNA clone IMAGE:3084583.31	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583.3'	Homo saplens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	al63d08.s1 Soares testis NHT Homo sabiens cDNA clone 13755n3 3.	601655837R1 NIH MGC 66 Homo sapiens cDNA clone IMAGE 385893 3	601655837R1 NIH, MGC 66 Homo saplens cDNA clone IMAGE:385824 3	W86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE CYTOPI ASNAC.	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:CITC HI IMAN P11586 C-1.TETBAHYDDOCO ATE SYNTHASE CARD.	H. sapiens ECE-1 dene (exxn. 6)	H.saplens ECE-1 gene (excn 6)	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA	Homo sapiens HsGCN1 mRNA, partial cds	Homo sapiens HsGCN1 mRNA, partial cds	Homo saplens inosital 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Homo sapiens Inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA	Hano sapiens TCL6 gene, exon 1-10b	Human gamma-aminobutyntc acid transaminase mRNA, partial cds	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds	Homo sapiens pregnancy-zone protein (PZP) mRNA	zi82g10.s1 Soares fetal liver spieen 1NFLS S1 Homo saniens cDNA close two than 52 and 22 and	282910.s1 Soares fetal liver spleen 1NFLS S1 Homo seniens cDNA clane IMAGE 4814.0 2	DKFZp762P1616_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762P1616 5
Top Hit Database Source	EST_HUMAN	EST HUMAN	NT	TN	LN	TN	EST HUMAN	EST_HUMAN	Į. L	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	NT	IN	TN	NT	TN	NT	TN	TN	NT	TN	Z	5	EST HUMAN	EST_HUMAN	EST HUMAN
Top Hit Acession No.	1.0E-89 BF196052.1	1.0E-89 BF196052.1	2.		2	Γ	8.0E-90 BE670561.1	Γ	7.0E-90 AF223391.1	5	Γ	2		7.0E-90 H68849.1			TN 8922398	8922398 NT		177700.1	4504794 NT	4504794 NT	.1		.	4506354 NT	5.0E-90 AA705222.1	5.0E-90 AA705222.1	-
Most Similar (Top) Hit BLAST E Value	1.0E-89	1.0E-89	9.0E-90	9.0E-90	8.0E-90	8.0E-90	8.0E-90	8.0E-90	7.0E-90	7.0E-90 AA78297	7.0E-90	7.0E-90	7.0E-90 H68849.1	7.0E-90	6.0E-90 X91926.1	6.0E-80 X91926.1	6.0E-90	6.0E-90	6.0E-90 U77700.1	6.0E-90 U77700.1	6.0E-90	6.0E-90	5.0E-90/	5.0E-90 U80226.1	5.0E-90/	5.0E-90	5.0E-90	5.0E-90/	5.0E-90 AL135549
Expression Signal	6.12	6.12	1.16	1.16	1.62	2.93	5.28	5.28	2.65	1.91	1.88	1.88	1.98	1.98	1.14	1.14	7.33	7.33	3.54	3.54	3.25	3.25	10.5	1.55	2.19	3.08	1.07	1.07	0.98
ORF SEQ ID NO:	28960	28961	26859	26860	20806		21072	21073			27250	27251	27927	27928	22749	22750	23809	23810	25646	25647	26918	26919		20931	22273	24124	24186	24187	24251
Exen SEQ ID NO:	18672	18672	16668		10965		12690	12690	10746	16785	17060	17060	17683	17683	12957	12957	14034	14034	15554	15554	16725	16725	10123	11087	12382	14334	14400	14400	14463
Probe SEQ ID NO:	8860	8860	62.80	62.49	1047	1048	1308	1308	818	6907	7183	7183	7833	7833	3029	3029	4134	4134	6641	2641	6846	6846	5	1175	2508	8 4	4507	4507	4571

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Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	. Top Hit Descriptor	H.sapiens mRNA encoding phospholipase c	H, saplens mRNA encoding phospholipase c	Homo saplens analopoletin 4 (ANG4) mRNA nettel c4s	Homo sapiens andiopoletin 4 (ANG4) mRNA nartial cde	Homo sapiens adenylate cyclase 9 (ADCV9) mRNA	Homo sapiens hypothetical protein FLJ13222 (FLJ13222) mRNA	Homo sapiens similar to ectonucleotide pyrophosphatasa/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA	Homo sapiens ATPace aminophocholinid transporte life Classic Case	Homo sapiens gene for AF-6 complete cde	ar78h05.x1 Barstead anta HPI RR6 Home conjens CDNA Alexander And Alexand	Homo sapiens chromosome 21 inhanan mRNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens myosin phosphatase farret submit 1 (AVOT1) DNIA	H. saplens gene encoding discoidin recentor tyrosine kinase axxon da	Homo sapiens DNA for amvioid precursor protein complete cds	Homo saplens mRNA for KIAA1244 profein martial cite	Human prohormone converting enzyme (NEC2) gene eyen 8	601335244F1 NIH MGC 39 Homo saniens CDNA chare INACE:365047 F	601067378F1 NIH MGC 10 Homo sapiens CDNA clone IMAGE: 2453824 F	Homo saplens high-mobility group (nonhistone chromosomal) protein 17 (HM/247) DNIA	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17) mDNA	qc54c02.x1 Soares_placenta_8to9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1713410 3' similar to SW-OI F3 MOI ISE D23378 OI EACTAGE DESCRIPTION DE CENTROL DE CONTROL DE CONT	Homo saplens mRNA for KIA Angeo cana particularia	Homo sapiens GRB2-related adapter profess (GRAD) DNA	ba49d05,y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899881 5' similar to TR:O75208 O75208 HYPOTHETICAL 35.5 KD PROTEIN :	Homo saplens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (I OCR3484)	Homo sepiens similar to faminin reventor 4 (67/5) : it	AU118985 HEMBA1 Homo seniens of the Hemba10040s s.
le Exon Pro	Top Hit Database Source	TN	NT	NT L	N	L L	LN	L	Þ	LN	EST HUMAN	N L	LN	Ļ	NT NT	N	IN.	IN	EST HUMAN	EST HUMAN	1		EST HUMAN	1	1	EST_HUMAN	<u></u>		T HUMAN
Sing	Top Hit Acession No.	5.0E-90 Z16411.1	5.0E-90 Z16411.1	5.0E-90 AF113708.1		4557258	11345483 NT	11419429 NT	11433721 NT	5.0E-90 AB011399.1	_	-	<u> </u>	4505316 NT			4.0E-90 AB033070.1		3.0E-90 BE563833.1	7	1748	5031748 NT		-	5729855 NT	6.1	11427320 NT	11427320 NT	2.0E-90 AU118985.1 E
	Most Similar (Top) Hit BLAST E Value	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	5.0E-90	4.0E-90	4.0E-90	4.0E-90	4.0E-90 X99033.1	4.0E-90 D87675.1	4.0E-90/	4.0E-90 M95967.1	3.0E-90	2.0E-90	2.0E-90	2.0E-90	2.0E-90 AI138213.	2.0E-90/	2.0E-90	2.0E-90	2.0E-90	2.0E-90	2.0E-90 A
	Expression Signal	2.52	2.13	2.26	2.26	7.93	4.66	1.24	15.41	2.16	2.37	1.85	1.85	2.94	. 9.22	4.07	1.97	1.9	103.62	4.28	3.65	3.65	2.81	1.13	8.33	4.34	2.9	2.9	1.58
	ORF SEQ ID NO:	25409	25409	26302	26303	26489	26899	27646	28060			20083	20084	20829	21432	24235	24372	24385	29004	19995	20913	20914	23465	24264	24488	25519	27708	27709	27796
	Exon SEQ ID NO:		15353				16704	17432	17818	19306	19299	10263	10263	10986	11565	14449	14577	14599	18709	10178	11069	11069	13683	14476	14703	15451	17489	17489	17572
	Probe SEQ ID NO:	5433	5523	6283	6283	6464	6825	7581	7968	9744	9789	299	82	1070	16ය	4557	4691	4713	8901	207	1156	1156	3771	4588	4820	5534	7638	7638	7722

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Exon ORF SEQ Expression (Top HIt Accession 17572 Cop Hit Accession 17572 Top Hit Accession 17	Expressed III Destri	Top Hit Descriptor	AU118985 HEMBA1 Homo saniens CINA Alama HEMBA1004776 FI	Homo sapiens myosin, heavy bolyneptide 4, skelatel mincle (AVMA)	Homo sanians amulaid hely (AA) accessed in the Control of the Cont	Homo sapiens chromosome 24 infrastructure DNA	Homo sapiens chromosome 21 unknown PDNA	Homo sapiens mRNA for T-box transcription feeter (TDV20 mm.)	Homo sapiens mRNA for T-box transcription forth (TBXs)	Homo sapiens AI R-like protein mRNA partial Ais	Homo saplens Al R-like protein mRNA merital cats	Homo sapiens Knonel-like factor 7 (uptiquity) (K1 = 2) DNA	Omo sapiens profesio phoenistics (1978) and 1974	Homo saniens protein phosphataca 24 DD	301159563F2 NIH MGC 53 Home conjunction of the conj	domo saniens similar to SAL14 (Ad / December 2) 111- 41 Octaves	domo earlians chromesome 8 Control (COC) (MCNA	dano sapiens minumosume o open reaging trame 2 (C8ORF2), mRNA	Joing Septems minute for KTA Angers protein, partial cds	Homo saplens soluble Interleukin 1 receptor accessory protein (IL1RAP) gene, ακαπ 8, atternative exons 9	and Complete cos, alternatively spliced	Homo Sapiens solute carrier family 1 (high affinity separately/hitemath transmission)	nRNA	lomo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (RIG2) mRNA	tomo sapiens SNCA isoform (SNCA) gene, complete cds, alternativaly, self-ord	Iomo sapiens CGI-15 protein (LOCS1008) mBNA	lomo sapiens CGI-15 protein (I OC51008) mRNiA	lomo saplens DNA for Human P2XM complete cele	lomo saplens DNA for Human POXM complete cate	(UMDORS381 iver Hence Call line Law, complete cus	attus norveoliciis haalis snecific contactiis badina acata, Oppos	iono gapians makorin ind financiation 4 Milyania 1988	190504.81 Soares fetal liner splean 1/RES S. U	U143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5
Exon NO: ORF SEQ Signal NO: Expression Signal PLAST E 17814 (Top) Hit Signal PLAST E 10240 Top Hit Acess No. Top Hit Acess No. 10241 23159 1.56 2.0E-60 AU118985.1 10241 23159 1.0E-60 AU118985.1 10241 23159 1.0E-60 AF02 10241 23148 1.0E-60 AF02 10645 20148 1.01 1.0E-60 AF231920.1 10645 20472 2.03 1.0E-60 AF264750.1 10645 20473 2.03 1.0E-60 AF264750.1 10645 20473 2.03 1.0E-60 AF264750.1 110645 20473 7.71 1.0E-60 AF264750.1 110645 20472 7.71 1.0E-60 AF264750.1 11192 21049 3.47 1.0E-60 AF264750.1 11192 21041 3.47 1.0E-60 AF06154.1 11192 21041 3.47 1.0E-60 AF06154.1 1156 21631	אום ורעידו בולי	Top Hit Database Source	Т												HUMAN	, , , , , ,														F HUMAN			T HUMAN	\Box
Exan NO: ORF SEQ ID NO: Expression Signal (T BB 17572 27797 1.56 17914 28159 49.27 10241 20060 3.39 12639 20148 1.21 12639 20148 1.04 10613 20435 2.03 10645 20472 7.71 10645 20472 7.71 10645 20472 7.71 10645 20473 7.71 110613 20436 2.03 10645 20472 7.71 110613 20436 2.03 10645 20473 7.71 110613 20473 7.71 11192 21044 3.47 11548 22454 3.47 13689 23474 1.18 13689 27144 1.72 17240 27444 1.72 17240 27445 1.72 17240 27445 1.72	Š		AU118985.1	11024711	4502166	20.1	20.1		Γ			4507828	AF096154.1		Γ	0514	6005720		0.1				11426758	11422086		11422109	11422109			Γ	Ī	9234		
Exon NO: ORF SEQ ID NO: Express Signe 17572 27797 4 17572 27797 4 17572 27797 4 17573 20148 4 12639 20148 4 12639 20148 4 12639 20148 4 10645 20435 4 10645 20436 4 10645 20473 4 11010 21044 4 11192 21045 4 11192 21045 4 11192 21045 4 11756 21631 4 11756 21631 4 12752 22545 4 13689 27189 6 17240 27445 4 17240 27445 4 17240 27445 4 13268 25226 4 14001 23780 6		Most Similar (Top) Hit BLAST E Value	2.0E-90	2.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90	1.0E-90 /	1.0E-90	1.0E-90/	1.0E-90	1.0E-90	1.0E-90 /	1.0E-90	1.0E-90	1.0E-90	1.0E-90 /	1.0E-90 p	4 0F-90 A	1.0E-90 A		1.0E-90			1.0E-90	1.0E-90	1.0E-90 A	1.0E-90 A	8.0E-91 D	7.0E-91 A	7.0E-91	5.0E-91	5.0E-91 A
Exan SEQ ID NO: NO: 17572 17572 17574 10645 10645 10645 11724 17240 17240 17240 17240 17240 17240 173346 13346 13346 13346 13346 13346 13346 14309		Expression Signal	1.56	49.27	3.39	1.21	1.04	2.03	2.03	7.71	7.71	2.45	3.47	3.47	4.02	4.98	8.4	1.18	1.18	-	2.2		2.85	3.78	122	1.72	1.72	1.89	1.89	5.48	0.88	2.05	1.47	1.05
		ORF SEQ ID NO:				L							21044	21045		21631	22545	23473	23474	24005	25464		26558	27.189		27444	27445	25225	25226	23780	21199	26907	23151	24092
Probe SEQ ID NO: NO: 17722 1772 275 1713 1713 1713 1713 1713 1713 1713 17							12639	10613	10613	10645	10645	11010			11548	11756	12752	13689	13689				16380	0880	1/224	17240	17240	19268	19268	14001	11333	16714	13346	14309
		Probe SEQ ID NO:	7722	8765	275	370	371	989	089	713	713	1094	1284	1284	1644	1860	2823	3777	3777	4326	5481		1269	1717	8	/3/1	7371	9732	9732	4101	1428	6835	3429	4415

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Single Extra Flores Expressed in rigar.	Top Hit Descriptor	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6	Homo saplens beta-ureidopropionase (BUP1) gene, exon 6	Homo sapiens chromosome 21 segment HS21C084	UI-H-BI3-aks-d-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'	602022088F1 NCI_CGAP_Brn67 Horno sapiens cDNA clone IMAGE:4157804 5'	602022088F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'	ym30e03.r1 Scares infant brain 1NIB Homo sapiens cDNA clone IMAGE:49587 5'	Homo saplens NKG2D gene, exan 10	Homo sapiens NKG2D gene, excn 10	Human Na+,K+ ATPase alpha-subunit mRNA, partial cds	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA	Homo sapiens NALP1 mRNA, complete cds	Homo sapiens mRNA for KIAA1512 protein, partial cds	Homo sapiens mRNA for KIAA1512 protein, partial cds	Homo sapiens brefeldin A-Inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA	601273513F1 NIH_MGC_20 Homo sapiens cDNA done IMAGE:3614667 5'	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA	Homo sapiens MCP-4 gene	Human lens membrane protein (mp19) gene, exon 11	Human lens membrane protein (mp19) gene, exon 11	Homo sapiens mRNA for KIAA0611 protein, partial cds	Homo sapiens mRNA for MBNL protein	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA	Homo sapiens fregile X mental retardation, autosomal homolog 1 (FXR1), mRNA	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	Homo sapiens mRNA for KIAA0758 protein, partial cds	Homo sapiens mRNA for KIAA0758 protein, partial cds	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
JIG EXOII FIO	Top Hit Database Source	TN	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	IN	IN	IN	NT	TN	NT	۲	EST_HUMAN	3.1 EST_HUMAN	NT	NT	NT	NT	IN	NT	NT	IN	Ę	F	占	N N	NT	NT	본
TIIO	Top Hit Acession No.	3.0E-91 AF169555.1	AF169555.1	1.0E-91 AL163284.2	1.0E-91 AW449746.1	1.0E-91 BF348182.1	1.0E-91 BF348182.1		9.0E-92/AJ001689.1	9.1		11427149 NT	9.0E-92 AF310105.1	AB040945.1	9.0E-92 AB040945.1	11422086 NT	N26367.1	8.0E-92 BE386363.1	. 11434722	11434722 NT	1,000979.1	-04193.1	-04193.1	AB014511.1	713829.1	8.0E-92 AF074393.1	4503340 NT	11434704 NT		7.0E-92 AB018301.1	7.0E-92 AB018301.1	7.0E-92 AF007822.1	4502384 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-91	3.0E-91 AF16955	1.0E-91	1.0E-91	1.0E-91	1.0E-91	1.0E-91 H15212.	9.0E-92/	9.0E-92 AJ00168	9.0E-92 J03007.1	9.0E-92	9.0E-92	9.0E-92 AB04094	9.0E-92(/	9.0E-92	8.0E-92 W26367.	8.0E-92	8.0E-92	8.0E-92	8.0E-92 AJ00097	8.0E-92 L04193.1	8.0E-92 L04193.1	8.0E-92 AB01451	8.0E-92 Y13829.1	8.0E-92	8.0E-92	8.0E-92	7.0E-92 M60676.	7.0E-92 /	7.0E-92	7.0E-92	7.0E-92
	Expression Signal	3.03	3.03	3.02	3.58	1.7	1.7	2.42	8.41	8.41	3.56	1.75	3.22	19.33	19.33	1.66	202	5.9	1.29	1.29	1.29	3.61	3.61	2.61	1.31	4.53	3.21	1.43	2.64	-2.51	2.51	1.25	1.91
	ORF SEQ ID NO:	22382	22383	19833		26175	28178		20981	20982	25103	25418	25911	26954	2692		19887	20068	21554	21555	25973	82692	62692	27314	27836	28316	28841	25268			20021		21017
	Exan SEQ ID NO:	12492	12492	10030	11133	16035	16035	19685	11130	11130	15273	15362	15789	16757	16757	17210	10071	10248	11677	11677	15849	16786	16786	17119	17610	18067	18556	19162	10046	12662	12662	10514	11166
	Probe SEQ ID NO:	9812	9812	42	1225	0609	0609	8626	1221	1221	5353	5442	2882	8289	8289	7342	28	283	1778	1778	5944	8069	8069	7242	7760	8180	8687	9572	09	236	236	929	1259

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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sapiens ARP2 (actin-related protein 2, veast) homolog (ACTR2), mRNA	Homo sapiens ARP2 (actin-related protein 2. vesst) homolog (ACTR2) mBNA	Homo saplens cysteine-rich repeat-containing protein S52 precursor mRNA complete cuts	Homo sabiens NRAS-related gene (D1S155E) mRNA	Homo sapiens DNA, MHC class I region, 7.1 ancestral hanlotone	Homo saplens T-cell lymphoma invasion and metastasis 1 (TIAM1) mPNA	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 ntl	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 Int	Homo sapiens prospero-related home-how 1 (PROX1) mRMA	Zw66d12r1 Soares testis NHT Homo seniens CDNA clone IMACE:784175 gr	801283012F1 NIH MGC 44 Homo saniens CPNA close 18AACE Selector 51	601501242F1 NIH MGC 70 Home sapiens cDNA clone IMAGE-200200 F1	EST91020 Synovial sarcoma Homo saciens cDNA 5' end similar to similar to ribosomal acades 643	Human mRNA for alpha-actinin	Human mRNA for alpha-actinin	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA	Homo sapiens hypothetical protein d1462023 2 (D.1462023 3) mRNA	Homo sapiens hypothetical protein dJ462023.2 (D.1462023.2) mRNA	601118337F1 NIH MGC 17 Homo sepiens cDNA clone IMAGE:3028204 51	601118337F1 NIH MGC 17 Homo sapiens cDNA clone IMAGE:3028304 F	mtg=mas-related [human, Genomic, 2416 nt]	W. 27407.x1 NCI_CGAP_Brr25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844 Q12844 BREAKPOINT CLUSTER REGION PROTEIN	wk27d07.xt NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844 Q12844 BREAKPOINT CI ISTED DECIDIO PROFILE IN	Homo sabiens synderian 4 (amphilipmen purificulty) CDCA/ Dkta	Homo sablens calcinatin hinding match 1 / / / A 62301 - DN 4	Homo sabiens chromosome 21 inches m RNA	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
Top Hit Database Source	N	R	Į.	N	N	N	NT	L	Ę	μN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	NT	TN	N	NT	EST HUMAN	EST HUMAN	N	EST HUMAN	FST HIMAN	TN	LZ	NT	NT	F
Top Hit Acession No.	5031570 NT	5031570 NT	AF167706.1	6005738 NT	AB031007.1	4507500 NT	4507500 NT	S71824.1	S71824.1	4506118 NT	AA446206.1	3E390882.1	3.0E-92 BE909714.1	4A378336.1	(15804.1	(15804.1	4501898 NT	11422946 NT	11422946 NT	3E299190.1	3E299190.1	378653.1	2.0E-92 AI818119.1	V818119.1	4506860 NT	6912457 NT	2.0E-92 AF231919.1		5803180 NT
Most Similar (Top) Hit BLAST E Value	7.0E-92	7.0E-92	7.0E-92 AF16770	7.0E-92	7.0E-92 AB03100	7.0E-92	7.0E-92	7.0E-92 S71824.1	7.0E-92	7.0E-92	7.0E-92 AA44620	5.0E-92 BE39088;	3.0E-92	3.0E-92 AA378336	3.0E-92 X15804.1	3.0E-92 X15804.1	2.0E-92	2.0E-92	2.0E-92	2.0E-92 BE29919	2.0E-92 BE29919(2.0E-92 S78653.1	2.0E-92	2.0E-92 AI818119	20E-92	2.0E-92	2.0E-92	2.0E-92 A	2.0E-92
Expression Signal	1.67	1.67	2.32	5.01	1.04	0.92	0.92	1.61	1.61	1.45	4.87	0.93	2.45	3.74	2.2	5.7	1.53	2.93	2.93	1.38	1.38	2.74	1.55	1.55	4.71	37.64	1.02	1.02	4.99
ORF SEQ ID NO:	21923	21924				23023	23024	24165	24166	24752	24836		22494						19959	20497	20498		21667	21668	21787	22381	23265	23266	23332
ਯ							15068	14378			15142	11473	12600			ı	l			10664	10664	11588	11789	11789	11895	12491	13478	13476	13545
Probe SEQ ID NO:	2139	2139	2517	2693	2724	3301	3301	4484	4484	5110	5219	1569	2738	5583	8146	8146	ম	172	172	732	732	1686	1894	1 88	2002	2623	3562	3562	3631

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Table 4
Single Exon Probes Expressed in Heart

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	. Top Hit Descriptor	Human endogenous retroviral DNA (4-1), complete retroviral segment	Homo sapiens bile salt export pump (BSEP) mRNA, complete cds	DKFZp434C0414_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434C0414 5	Homo sapiens mRNA for KIAA1068 protein, partial cds	Human NPY Y1-like receptor pseudogene mRNA, complete cds	hd02h02x1 Soares, NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:002711 002711 PRO-POL-DUTPASE POLYPROTEIN:	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA	Homo sapiens mRNA for KIAA1093 protein, partial cds	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	yi80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574.5'	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA	tg01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element	MER17 repetitive element;	tg01b02x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element ;	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 6'	EST188414 HCC cell line (matastasis to liver in mouse) il Homo sapiens cDNA 5' end similar to ribosomal protein L29	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'	Homo sapiens ribosomal protein L10a (RPL10A), mRNA	601460521F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3863908 5'	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens mRNA for KIAA0611 protein, partial cds	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'	wc09c08.x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2314670 3'	Homo sapiens chromosome 21 segment HS21C001	Human skeletal muscle 1.3 kb mRNA for tropomyosin
	Top Hit Database Source	LN.	N F	EST_HUMAN	Z	N L	EST HUMAN	LN PA	N.	N	EST_HUMAN	EST_HUMAN	Z		EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	EST HUMAN	N-	EST_HUMAN	NT	N	EST_HUMAN	EST_HUMAN	NT	NT
1	Top Hit Acession No.	M10976.1	2.0E-92 AF136523.1	2.0E-92 AL040437.1	2.0E-92 AB028991.1	J67780.1	4W340174.1	11434900 NT	4B029016.1	6912457 NT		₹78078.1	4506668 NT		A1380356.1	1.0E-92 Al380356.1	9.0E-93 AU121681.1	9.0E-93 AA316723.1	1.1	1.1	11418526 NT	8.0E-93 BF036364.1	9.1	1.1	.1	.1	1.2	
	Most Similar (Top) Hit BLAST E Value	2.0E-92 M10976.	2.0E-92	2.0E-92	2.0E-92	2.0E-92 U67780.1	2.0E-92 AW3401	2.0E-92	2.0E-92 AB029016	2.0E-92	1.0E-92 R78078.	1.0E-92 R78078.	1.0E-92		1.0E-92 AI380356	1.0E-92	9.0E-93 /	9.0E-93	9.0E-93 AF22339	9.0E-93 BE38857	9.0E-93	8.0E-93	7.0E-93 AF23191	5.0E-93	5.0E-93 AI674184	5.0E-93 AI674184	5.0E-93 AL16320	5.0E-93 X04201.1
	Expression Signal	1.02	6.79	2.53	2.49	2.25	1.37	5.91	2.55	26.65	1.11	1.11	34.72		4.04	4.04	3.14	9.21	1.46	96.0	8.6	2.49	6.24	1.25	5.39	5.39	0.95	2.42
	ORF SEQ ID NO:	23869	24323		26017		27211	28276	25274	22381	21582	21583	21810		27360	27361	21769			23267		26003	20028	21121	21145	21146		22925
	Exen SEQ ID NO:	14091	14534	14801	16894	16273	17018	18030		12491		11704	11919		17162	17162	11876	11890	12478	13477	18719	15879	10212		[13120
	Probe SEQ ID NO:	4191	4648	4922	6869	6420	7141	8142	9589	6836	1807	1807	2028	9	7286	7286	1983	1996	2610	3563	8911	5975	246	1359	1385	1385	1459	3195

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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product	Homo sapiens secretory pathway component Sec31B-1 mRNA alternatively solited complete and	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA	Homo sapiens nucleobindin 2 (NUCB2), mRNA	Homo sapiens gamma-glutamytransferase 1 (GGT1), mRNA	2x50e09.s1 Scares_testis_NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT P37397 CALPONIN, ACIDIC ISOFORM:	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA	Homo sapiens pescadillo (zebrafish) homolog 1. containing BRCT domain (PFS1) mRNA	Homo sapiens pescadillo (zebrafish) homolog 1. containing BRCT domain (PES1) mRNA	Homo sapiens hypothetical protein FL/20731 (FL/20731) mRNA	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5	Homo sapiens chromosome 21 segment HS21C101	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA	yb94c12.r1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-RINDING PROTTEIN CRE 700 LI MAAN	AV692051 GKC Homo sapiens cDNA clone GKCDRF07 5'	602246554F1 NIH MGC 62 Homo sapiens cDNA clone IMAGE-4330138 F1	602246554F1 NIH MGC 62 Homo sapiens cDNA clone IMAGF-4332036 5'	Homo sapiens tensin mRNA, complete cds	h29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076:3'	tn29g03.x1 NCI_CGAP_Brn25 Homo septens cDNA clone IMAGE:2169076.3'	Homo sapiens GCN5 (general control of amino-acid synthesis weest homology) is a 2005 (general control of amino-acid synthesis weest homology).	wb02d05x1 NCI CGAP GC6 Homo saplens GDNA clone IMAGE-22044863	Chlorocebus aethiops mRNA for ribosomal protein SAX complete cds	Chlorocebus aethiops mRNA for ribosomal protein S4X complete cds	Homo sapiens chromosome 21 segment HS21C085	Homo sapiens chromosome 21 segment HS21C085
	Top Hit Database Source	LΝ	TN	TN	NT	LN LN	EST HUMAN	LN	L	L	IN IN	N F	NT	NT	K	TN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	L	EST HUMAN	EST_HUMAN	Į.	EST HUMAN	N F	NT	N-	NT
	Top Hit Acession No.	5.0E-93 AF067136.1	5.0E-93 AF274863.1	5032156 NT	11439599 NT	11417877 NT	4.0E-93 AA459933.1	4557879 NT	4557879 NT	7657454 NT	7657454 NT	8923658 NT	7.1	1.2	7656972 NT	4504654 NT		4.0E-93 AV692051.1	Г	1.0	3.0E-93 AF225896.1	+-	1	11426182 NT	3.0E-93 AI824829.1	2.0E-93 AB015610.1		2	2
	Most Similar (Top) Hit BLAST E Value	5.0E-93	5.0E-93	5.0E-93	5.0E-93	5.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93	4.0E-93 AF04767	4.0E-93 AL16330	4.0E-93	4.0E-93	4.0E-93 T46864.1	4.0E-93	3.0E-93	3.0E-93 BF690630	3.0E-93	3.0E-93 AI553853	3.0E-93 AI553853.	3.0E-93	3.0E-93 /	2.0E-93	2.0E-93 /	2.0E-93 /	2.0E-93 AL163285
	Expression Signal	3.67	2.07	1.31	3.01	1.84	4.72	1.75	1.75	1.33	. 1.33	2.08	5.06	0.84	2.18	1.44	4.81	19.24	5.99	5.99	2.7	1.58	1.58	1.32	4.15	8.31	8.31	69:9	7.68
	ORF SEQ ID NO:	26577	27613		28336			20204		20522		20923	21712	22126		23647	25445	28613	23302	23303		25520	25521	25979	28314	19970	19971	. 20100	20100
	Exon SEQ ID NO:	16398	17400			19423	10066	10381	10381	10685	10685	11078	11829	12229	12435	13869	15385	18348	13515	13515	14042	15452	15452	15857		10155	10155	10282	10282
	Probe SEQ ID NO:	6540	7549	7644	8200	9487	82	437	437	755	755	1166	1934	2349	2564	3962	5465	8475	3601	3601	4142	5535	5535	5952	8178	183	183	320	321

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 | | | | TR:Q62384 Q62384 | |

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 | | son disease) (NF1) | |
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| Top Hit Descriptor | Homo sapiens fensin mRNA complete ade | Human Clkeassociated RS cyclonhilin CARS CommBNA | 601117586F1 NIH MGC 16 Home septem only along 144 of the case | 601116810E1 NIH MCC 16 Home control control in the control control in the control control in the control control control in the control contro | EST376458 MAGE resentiences MACH Home continue - DNA | Homo sapiens hypothetical protein (1 OC54348) mBNA | UI-HF-BNO-aks-q-09-0-UI ri NIH MGC 50 Home canions of NIA of State | 4078b10.x1 Scares fetal luna NhHI 10W Home series anno Alvi Alvi Alvi Alvi Alvi Alvi Alvi Alvi | 229c10.s1 Soares pregnant utents NhHPI Home cariers CDNA close NACE: 1929 | Homo sapiens CYP17 gene 5' end | 601458531F1 NIH MGC 66 Homo sabiens cDNA clune IMACE 3982098 E
 | Homo sapiens CTR1 pseudonene | Homo sapiens CTR1 pseudonene | Homo sapiens hypothetical protein (DJ328F19 C1 1) mRNA | oy84b08.x1 NCL_CGAP_CLL1 Homo sepiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384 | Homo sabiens DNA for amyloid programmer professionalists | Homo sapiens hypothefical profein El 190204 (FI 190204) TENTA

 | Homo sapiens hypothetical protein El 120201 (El 120201) | Homo sapiens mRNA for KIAA1563 protein partial case | Homo saplens cysteine-rich repeat-containing protein S52 precursor mRNA complete | Sparking, Country, Co | Home conjune MILO | Novel himse near manning to characters 4
 | 60177686F1 NIH MGC 17 Home continue CNIA also also also also also also also also
 | 601177686F1 NIH MCC 17 Home series CONA CIGNE INACE:33322965 5 | Homo sapiens DNA for amyloid precursor protein complete ad- | Homo sapiens chromosome 21 segment HS21CnR4 | Homo sapiens alucocorticoid recentor (GRI) years infram D. such E. L. L. L.
 | Homo sapiens glucocorticold receptor (GRI) gene, intron D, excri 3, and intron E | Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) | Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA |
| Top Hit
Database
Source | F | Ę | EST HUMAN | EST HUMAN | EST HUMAN | NT | EST HUMAN | EST HUMAN | EST HUMAN | NT
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| Top Hit Acession
No. | AF225896.1 | U40763.1 | BE252982.1 | BE253201.1 | AW964385.1 | 11430039 | AW502002.1 | AI312025.1 | AA126735.1 | .41825.1 | BF035327.1
 | AF238997.1 | AF238997.1 | 7657016 | N146755.1 | |

 | 8923270 | AB046783.1 | | , | - | T
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 | | 4557792 | 11431590 NT |
| Most Similar
(Top) Hit
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Value | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93 | 2.0E-93
 | 1.0E-93 / | 1.0E-93 | 1.0E-93 | 1.0E-93 | 1.0E-93 | 1.0E-93

 | 1.0E-93 | 1.0E-93 / | 1.0E-93 / | 1 05 03 0 | 1.0E-93.A | 1.0E-93 A
 | 1.0E-93 B
 | 1.0E-93 | 1.0E-93 | 1.0E-93 A | 1.0E-93 U
 | 1.0E-93 U | 1.0E-93 | 1.0E-93 |
| Expression
Signal | 1.48 | 1.02 | 0.89 | 1.02 | 4.59 | 1.52 | 1.32 | 2.87 | 1.52 | 1.31 | 2.75
 | 1.64 | 1.64 | 2.56 | 3.75 | 3.32 | 6.41

 | 6.41 | 1.65 | 1.68 | 5 | 4.16 | 1.09
 | 2.69
 | 2.69 | 4.33 | 1.44 | 1.62
 | 1.62 | 9.15 | 2.06 |
| ORF SEQ
ID NO: | 21363 | | | | | L | | | | |
 | 19897 | 19898 | 20262 | 20330 | 20631 | 20974

 | 20975 | 21083 | 21085 | 02020 | 22190 |
 | 21030
 | 21031 | 22627 | 24010 | 25391
 | 25392 | 25604 | 26197 |
| Exon
SEQ ID
NO: | 11503 | | 12313 | 14958 | | | | | | |
 | | | 10449 | 10523 | 10781 | 11125

 | 11125 | 11228 | 11230 | 12172 | 12292 | 12336
 | 11181
 | 11181 | 12830 | 14228 | 15338
 | 15338 | 15522 | 16051 |
| Probe
SEQ ID
NO: | 1598 | 2083 | 2436 | 5088 | 5325 | 5462 | 6014 | 9888 | 9386 | 9465 | 9724
 | 88 | 96 | 607 | 585 | 854 | 1217

 | 1217 | 1321 | 1323 | 2289 | 2415 | 2459
 | 2782
 | 2792 | 2903 | 4331 | 5417
 | 5417 | . 5607 | 6067 |
| | SEQ ID NO: Signal NO: Value No. | SEQ ID NO: Signal Avalue No. Signal 1.48 2.0E-93 AF225896.1 NT Homo sapiens fension mRNA complete and complet | Exon
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11868 Top Hit Acession
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No. Top Hit Acession
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SEQ ID
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Signal
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Signal
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Pulce Top Hit Acession
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Source Top Hit Acession
Source 11503 21363 1.48 2.0E-93 AF226896.1 NT 11973 22210 0.89 2.0E-93 BE25282.1 EST_HUMAN 14958 24732 1.02 2.0E-93 BE253201.1 EST_HUMAN 15245 25049 4.59 2.0E-93 AW964385.1 EST_HUMAN 15382 25442 1.52 2.0E-93 AW964385.1 EST_HUMAN 15382 25442 1.52 2.0E-93 AW964385.1 EST_HUMAN | Exon
SEQ ID
NO: ORF SEQ
Signal
NO: Expression
Signal
PASTE (Top) Hit
No. Top Hit Acession
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Public (Top) Hit
Public Top Hit Acession
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Table 4
Single Exon Probes Expressed in Heart

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ungle Explicated III leadt	Top Hit Descriptor	Human mRNA for NF1 N-isoform-exon11, complete cds	Homo sapiens mRNA for KIAA1411 protein, partial cds	H.sapiens mRNA for MEMD protein	Homo sapiens protein kinase Inhibitor gamma (PKIG) mRNA, complete cds	Homo sapiens mRNA for KIAA1485 protein, partial cds	Homo sapiens Trio isoform mRNA, complete cds	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)	Human PreA4 gene for Alzhelmer's disease A4 amyloid protein precursor (exon 9)	qm03c12x1 NCI_CGAP_Lu5 Hamo sapiens cDNA clone IMAGE:1880758 3' similar to WP:T19B4.4 CE13742:	Homo saplens glutatrilone S-transferase theta 2 (GSTT2), mRNA	Homo sapiens chromosome 21 segment HS21C009	Homo sapiens transcription enhancer factor-5 mRNA, complete cds	Homo saplens mitogen-activated protein kinase 12 (MAPK12), mRNA	Homo sapiens mRNA for KIAA0612 protein, partial cds	Homo sapiens mRNA for KIAA0612 protein, partial cds	2g87g06.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409594.3*	ot83d05.s1 Soares_total_fetus_NbZHF8_9w Homo sapiens cDNA clone IMAGE:1623369 3'	yd98b04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:116239 3'	Homo saplens mRNA for KIAA0027 protein, partial cds	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA	Homo sapiens ribosomal protein L27 mRNA, complete cds	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA	w11f10.x1 NCI_CGAP_Bm52 Homo sepiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15266 PROTEIN TYROSINE PHOSPHATASE;	Homo sabiens solute carrier family 22 forcante cation transported member 4-like (Si Con Ast) DNA	עאטווי (בוער ביינים) ביינים אינים אי	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA	Homo saplens hypothetical protein FLJ12455 (FLJ12455), mRNA	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene	Homo sapiens complement component 5 (C5) mRNA	Homo saplens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
פום באטון דוס	Top Hit Database Source	IN	N	N	N-	FN	Ā	NT	N	EST HUMAN	NT	N-	N _T	LN.	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN	LN	LN	TN	EST_HUMAN	IN		N	NT	IN	L	NT	NT
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	Expression Signal	4.09	2.04	1.18	1.59	1.8	1.22	4.54	4.54	5.92	2.33	122	1.74	1.67	3.05	3.05	1.72	1.ස	4.68	1.27	1.26	4.55	0.86	3.02	1.84		1.84	1.72	1.17	1.17	1.05	1.05
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Table 4
Single Exon Probes Expressed in Heart

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Single Exol Flobes Expressed in Heart	Top Hit Descriptor	Homo saplens E1A binding protein p300 (EP300) mRNA	Zw63g08.r1 Soares total fetus Nb2HF8 9w Horno saniens cDNA clone IMARGE:774752 E	Homo sabiens zinc finger protein 277 (7NE277) mRNA	Homo sabiens chromosome 21 chep reading frame 18 (C2100E48) DNA	Homo sabiens protocadherin sinha 13 (PCDH_slaha13) mBNA complete 2.2	Homo sapiens mRNA for KIAA0679 brotein nartial cde	Homo sapiens glycogenin-1L mRNA, complete cds	Homo sapiens axonal transnort of swamin vasteries (ATSV) DNA	Human cbl-b truncated form 1 lacking lauring zinner mBNA commission	601175762F1 NIH MGC 17 Homo samiens cinna close than Garagadose 21	801111698F1 NIH MGC 16 Homo sapiens cDNA clope IMAGE:3251056 5	601111696F1 NIH MGC 16 Home canisms COLIA close IMAGE 225255 51	Homo sablens hypothetical protein (El 1207/48) DNA	Home seniors refreshed by the control of the contro	601468748F1 NIH MGC R7 Home series PINA Alara MACE 2923000 E	Homo carriane II. 4 recorded authorized II. 40 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	appoint of the complete comple	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR;	601175762F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3531038 5	Homo saplens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA	Homo sapiens progressive ankylosis-like protein (ANK) mRNA complete and	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:2340606 3' similar to gb:K00558 TUBULIN ALPHA-1 CHAIN (HUMAN)	we08e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA done IMAGE:2340606 3' similar to gb:K00558	Homo satiens professione (processes maceurals),	Homo sapiens professome (prosome measure), 1985 and 1985 and 1986, 11 (PSMD11), mRNA	Homo sapiens bolassium channel sulvinit (HERC 3) menta and a sapiens bolassium channel	Homo sapiens KIAA0255 gene product (KIAA0255) mPNA	Homo saplens KIAA0255 gene product (KIAA0255), mRNA	Homo saplens proline dehydrogenase (proline oxidase) (PRODH) mRNA
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	Expression Signal	3.45	0.82	3.58	4.16	1.16	3.79	4.36	1.75	2.27	2.24	1.91	19.1	1.13	1.83	1.41	2.49		2.19	1.58	1.55	1.13	1.13	1.87	1.59	1.59	1.83	1.83	2.05	1.73	1.73	2.82
	ORF SEQ ID NO:	21504	23772	25466	25909	26838		27596	28580	29029	19937	22769	22770	23938	27439	27707	28546		28//5	18807	21230	22839	22840	26869	24119	24120	26314	26315	26837	27515	27516	27744
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	Probe SEQ ID NO:	1735	4095	5484	5881	6771	6992	7533	8448	8928	143	3050	3020	4261	7331	7636	8418	1000	8030	80.76	1401	3118	3118	989	4436	4436	6294	6294	6770	7391	7391	7667

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Single Exon Probes Expressed in Heart

Page 317 of 413 Table 4 Single Exon Probes Expressed in Heart

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Oligio Lyon Flores Expressed III heart	Top Hit Descriptor	Human muscle-type phosphofructokinase (PFK-M) gene. exon 7	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA complete cds	Homo saplens huntingtin (Huntington disease) (HD) mRNA	Homo sapiens bone marphogenetic protein receptor, type IA (BMPR1A) mRNA	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) denes, complete cds	Homo sapiens adenylosuccinate Ivase (ADSL), mRNA	zt23h04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6:	女23h04.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2 6	RG5-FN0019-290600-011-G11 FN0019 Homo sapisase CDNA	RC6-FN0019-290600-011-G11 FN0019 Homo saniens clnii4	601437232F1 NIH MGC 72 Homo sapiens cDNA clope IMAGE 3022422 F1	601497608F1 NIH MGC 70 Homo sepiens cDNA clone IMAGE-3809761 5	601497608F1 NIH MGC_70 Homo saplens cDNA clone IMAGE:3899761 5	PM0-LT0019-090300-002-d09 LT0019 Homo sepiens cDNA	Homo sapiens chromosome 21 unknown mRNA	MR0-HT0559-250200-002-407 HT0559 Hamo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C001	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDF6A) mRNA	Homo sapiens transient receptor potential channel 5 (TRPCS) mRNA	H.sapiens DNA for monoamine oxidase type A (7) (partial)	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1) mRNA	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1) mRNA	Human type IV collagenase (CLG4B) gene, excn 5	Human type IV collagenase (CLG4B) gene, excn 5
	Top Hit Database Source	FN	F	NT	TN	Į Į	PA FA	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	LN LN	EST_HUMAN	NT L	LN FN	NT.	TN	TN	NT	NT TN	LN L	N-	L'N	N FN	N	N	N	NT
JIIC	Top Hit Acession No.	M59724.1	2.0E-95 AF257737.1	11435773 NT	4757853 NT	AF240786.1	2.0E-95 11418164 NT	1.0E-95 AA284651.1	1.0E-95 AA284651.1	1.0E-95 BF370000.1	1.0E-95 BF370000.1	9.0E-96 BE897259.1	8.0E-96 BE907607.1	3E907607.1	8.0E-96 AW836047.1		6.0E-96 BE171984.1	2	1	7662289 NT	7662289 NT	8923939 NT	3.1		5.0E-96 AB032998.1	11416767 NT	6912735 NT		11424399 NT			
	Most Similar (Top) Hit BLAST E Value	2.0E-95 M59724.	2.0E-95	2.0E-95	2.0E-95	2.0E-95 /	2.0E-95	1.0E-95	1.0E-95	1.0E-95	1.0E-95	9.0E-96	8.0E-96	8.0E-96 BE90760	8.0E-96	7.0E-96 AF23192	6.0E-96	6.0E-96 AL163201	6.0E-96 M26873.	6.0E-96	6.0E-96	6.0E-96	5.0E-96 AB032990	5.0E-96	5.0E-96 ⊅	5.0E-96	5.0E-96	5.0E-98 X60812.1	5.0E-96	5.0E-96	5.0E-96 M68347.1	5.0E-96 M68347.1
	Expression Signal	4.54	225	1.62	2.36	1.98	4.34	7.73	7.73	4.85	4.85	1.67	0.82	0.82	2.66	96.0	0.85	96.0	26.15	1.98	1.98	2.09	2.7	3.06	3.06	2.31	0.98	1.22	4.23	4.23	1.81	1.81
	ORF SEQ ID NO:		25984	26179	28245	25285		25427	26428	26460		26835		20202				22997	23159	28927	28928			20599	20600		22713			26194	26788	26789
	Exon SEQ ID NO:		15862	16038	17996	19084	19338	15371	15371	16298	16298	16646	12666	12666	15302	13746			13354	18644	18644	18682	10279	10751	10751	12447	12919	14694	16048	16048	16599	16599
	Probe SEQ ID NO:	5734	2957	6055	8106	9452	9840	5450	5450	6437	6437	6767	435	435	5383	3834	2213	3276	3437	8831	8831	8870	317	824	824	2576	2991	4810	6065	6065	6719	6719

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Single Exon Probes Expressed in Heart

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Onigo Evol Hones Expressed III Teal	Top Hit Descriptor	yr87h12.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGF 272327 5	Homo sapiens chondroitin sulfate proteoglycan 4 (melangma-associated) (CSPG4) mRNA	Homo sapiens chromosome 21 segment HS21C048	RC3-HT0230-040500-110-q02 HT0230 Homo sepiens cDNA	AV689461 GKC Homo sapiens cDNA clone GKCFMD07 5	2819351.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes	EST367124 MAGE resequences, MAGC Homo sabiens cDNA	EST367124 MAGE resequences, MAGC Homo sabiens cDNA	Homo sapiens flavin containing monooxydenase 2 (FMO2) mRNA	Homo sapiens flavin containing monooxydenase 2 (FMO2) mRNA	Human hepatocyte growth factor gene, exon 1	Human hepatocyte growth factor gene, exon 1	Fells catus superfast myosin heavy chain (sMvHC) mRNA, complete cds	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA		norno sapiens secretary patriway component Sec31B-1 mRNA, alternatively spliced, complete cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	601863712F1 NIH_MGC_57 Homo saplens cDNA clone IMAGE:4081202 5'	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'	zv97e12.s1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125 G1304125 PMS4 MRNA:	RC0-BT0812-250900-032-a09 BT0812 Homo sepiens cDNA	MRO-HT0241-150500-010-b02 HT0241 Homo sepiens cDNA	MRO-HT0241-150500-010-b02 HT0241 Homo seniens cDNA	CM0-BN0106-170300-293-906 BN0106 Homo sapiens CDNA	Homo sapiens brefeldin A-inhibited quanine nucleofide exchange protein 2 /BIC21 DNA	Homo sapiens mRNA for GalNAc alpha-2. 6-slalvitransferasa I Innr form	Homo sapiens mRNA for GalNAc alpha-2. 6-sial-Mransferasa I Jung form	Homo sapiens v-src avian sercoma (Schmidt-Ruppin A-2) viral oncorane homolog (SRC) mRNA	Homo sapiens mRNA for KIAA0594 protein, partial cds
ייין איין איין	Top Hit Database Source	EST HUMAN	1	Z	EST HUMAN	EST_HUMAN	EST_HUMAN	FN	EST_HUMAN	EST HUMAN	N-	LN LN	NT TN	TN	F			N.	Z	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Π	П	Г	Г			TN		
	Top Hit Acession No.	-	4503098	2.0E-96 AL163248.2	BE148074.1	2.0E-96 AV689461.1		1.0E-96 Y18890.1	1.0E-96 AW955054.1	54.1	4503756 NT	4503756 NT	-	÷	2	11419429 NT	4 00 00 00 00		6.1			6.0E-97 BE141849.1		5.0E-97 AA418026.1	2.1	5.0E-97 BE148597.1	7.7		5453572 NT	11339.2		11421793	4.0E-97 AB011166.1 NT
	Most Similar (Top) Hit BLAST E Value	3.0E-96 H68656.	2.0E-96	2.0E-96	2.0E-96 BE14807	2.0E-98	2.0E-96	1.0E-96	1.0E-96	1.0E-96 AW9550	1.0E-96	1.0E-96	1.0E-96 M75967	1.0E-96 M75967	1.0E-96 U51472.	1.0E-96	4 0 0	100,100,100,100,100,100,100,100,100,100	1.0E-96 AB03311	1.0E-96 AB03311	6.0E-97	6.0E-97	5.0E-97 /	5.0E-97	5.0E-97 BF15491	5.0E-97	5.0E-97 BE14859	4.0E-97	4.0E-97	4.0E-97 Y11339.2	4.0E-97 Y11339.2	4.0E-97	4.0E-97
	Expression Signal	622	3.49	1.56	1.58	5.08	2.05	1.69	2.03	2.03	0.89	0.89	1.33	1.33	1.88	20.65	2	3 3	8.	8.	0.95	2.75	1.76	10.79	2.76	1.87	1.87	1.26	1.08	6.1	6.1	1.41	1.17
	ORF SEQ ID NO:			20494	24326			20408	21510	21511	2:1580	21581	21969	21970	22009	27125	90626	02000	02872	27,939	23006		26747	26804	27643	28929	28930	20697	21638	26167	26168	26939	27433
	Exen SEQ ID NO:	13997	10355	10662	14537	17068	18902	10590	11643	11643	11703	11703	12068	12068	12650	16935	17015	47802	2002	560/1	13206	16319	16552	16614	17429	18645	18645	10849	11764	16027	16027	16746	17232
	Probe SEQ ID NO:	4097	409	730	4651	7191	9151	655	1742	1742	1806	1806	2181	2181	2219	7058	7138	70/07	2 0	1045	3280	9439	06/2	6735	7578	8832	8832	924	1868	6082	6082	6867	7328

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens mRNA for KIAA0594 protein, partial cds	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA	Homo sapiens mRNA, similar to rat myomegalin, complete cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	Homo sapiens mRNA for KIAA1290 protein, partial cds	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA	Homo sapiens mRNA for KIAA1172 protein, partial cds	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA	Homo sapiens amyoid beta (A4) precursor protein (protease nextn-II, Alzheimer disease) (APP). mRNA	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA	Human beta-prime-adaptin (BAM22) gene, exon 7	Homo sapiens pericentrin (PCNT) mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	601339520F1 NIH_MGC_53 Homo sapiens cDNA done IMAGE:3681821 5	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA	nk29g02.s1 NCI_CGAP_Co11 Homo saplens cDNA clone IMAGE:1014962 3'	Homo sapiens ribosomal protein S15 (RPS15), mRNA	Homo saplens ribosomal protein S15 (RPS15), mRNA	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA	Homo sapiens death-associated protein (DAP), mRNA	Homo sapiens death-associated protein (DAP), mRNA	Human mRNA for amyloid A4(751) protein	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA	Homo sapiens mRNA for KIAA1365 protein, partial cds	Homo saplens mRNA for KIAA 1005 protein, partial cds	Homo sapiens mRNA for KIAA1005 protein, partial cds	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA	Homo sapiens hPAD-colony10 mRNA for peptidylarginine delminase type I, complete cds	Homo sapiens IL2-Inducible T-cell kinase (ITK), mRNA
le Exon Prob	Top Hit Database Source	NT	NT	TN	NT	NT	NT	NT	NT	NT	Ę	Ę	F	F	ᅺ	EST_HUMAN	77	누	EST_HUMAN			EST_HUMAN	F	בא	F	NT	٠ ١ ٧	NT	NT	NT	EST_HUMAN	NT	F
Sing	Top Hit Acession No.	AB011166.1	11863122 NT	3122	4.0E-97 AB042557.1	6.1	6.1	11418318 NT	3.0E-97 AB032998.1	4502166 NT	4502166 NT	4758813 NT	J36255.1	5174478 NT	4503470 NT	BE566486.1	11427757 NT	11427757 NT	AA553761.1	11426272 NT	11426272 NT	3.1	8393092 NT	4758119 NT	4758119 NT		11321580 NT					8.0E-98 AB033768.1	5031810 NT
	Most Similar (Top) Hit BLAST E Value	4.0E-97	4.0E-97	4.0E-97	4.0E-97	4.0E-97 AB03311	4.0E-97 AB03311	4.0E-97	3.0E-97	3.0E-97	3.0E-97	3.0E-97	_	3.0E-97	1.0E-97	1.0E-97	1.0E-97	1.0E-97	1.0E-97	1.0E-97	1.0E-97	9.0E-98 BE09097	9.0E-98	9.0E-98	9.0E-98	9.0E-88 X06989.1	9.0E-98	9.0E-98	9.0E-98	9.0E-98	9.0E-98	8.0E-98	8.0E-98
	Expression Signal	1.17	1.76	1.76	15.68	2.31	2.31	3.83	1.17	10.96	10.96	1.11	1,92	1.14	12.55	2.19	3.41	3.41	2.82	13.54	13.54	8	1.29	4.74	4.74	277	2.41	1.39	2.24	2.24	4.97	0.89	1.04
	ORF SEQ ID NO:	27434	28641	28642	28124	28128	28129		20026	20633	20634	21195	22161	22948	24349	25897	28229	28230	28768	28156	28157	20658	21012	26691	26692	27342	27395	27423	28497	28498	20658	21112	21303
	Exon SEQ ID NO:	17232	18376	18376	17882	17885	17885	19012	10210	10783	10783	12694	12652	13147	14556	15778	17979	17979	18494	17912	17912	10809	11162	16503	16503	17148	17195	17223	18246	18246	10809	11256	11444
	Probe SEQ ID NO:	7328	8503	8503	8733	8736	8736	9331	243	856	856	1423	2389	3223	4670	5872	8088	8088	8629	8763	8763	883	1255	6623	6623	7271	7319	7355	8369	8369	9345	1350	1540

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Single Exon Probes Expressed in Heart

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Single Excit Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens II 2-inducible T-cell kinase //TK/ mDN/A	Homo sapiens PMS2 16 mRNA narrial cde	Homo saplens PMS21 16 mRNA natrial cde	Human mitochondrial creatine kinase (CKATT) rene complete etc.	Homo sablens chromasome 21 seament HS2/Cn04	ht68f02 x1 NCI CGAP 1 124 Homo sanians chila class (NA CE 24 27 20 20)	AJ403124 3.4 (downregulated in latonx carcinoma) Home cantinoma contractions	Homo sapiens mRNA for KIAA0707 motein nortial ods	7818H01 Chromosome 7 Fetal Brain cDNA I https://www.homosomica.com/activity	Homo sabiens activator of S phase kinese (ASK) mpMA	Homo sabiens activator of S phase kinase / ASK / mPNA	MATCHOR of Scarce and the kerica Matchol (MON), Illinian	A J403124 3 4 (downrentisted in Janua conclusion) Lie	A 1403124 3.4 (downrequiated in let yitk calcinoma) from sapiens cDNA clone 18	Control of July 11 Squared III (a) yilk cardinoma) Homo sapiens cDNA clone (8	Human fumarase precursor (FH) mRNA nuclear sene encoding mitochandrial	Homo saniens Ran (TTPass artification profess of IDANICADA) DAN	60172658F1 NIH MGC 17 Home sanions contact that Contact in	Homo saniens chromosome 21 segment LES4COOS	Homo sapiens polasel im channel enhine! / ICED 9 - Dal /	Homo sapiens fathearid-Coenzime & linese Long state of CAN 13 This	Homo saplens attractin precursor (ATRN) gene even 16	Homo sapiens attractin precursor (ATRN) gene evon 18	Homo sapiens low density lipopratein receptor related protein-deleted in timer (I RDDIT) DAIA	Homo sapiens low density lipoprotein receptor related protein-deleted in timor (1 DEDIT)	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA	Homo sapiens PDZ domain-containing quanine nucleotide exchange factor 1/1 Oceanor	Homo sapiens SH3-domain GRB2-like 2 (SH3G) mRNA	Homo sapiens SH3-domain GRB2-like 2 (SH3GI 2), mRNA	H.sapiens arginase gene excn 3 (EC 3 5 3 1)	Homo sapiens AIM-1 protein (LOC51151) mRNA	Homo sapiens chromosome 12 open reading frame 3 (C12OREs) mBNA	tw36b04x1 NCI_CGAP_Uff Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN PP39316 60S RIBOSOMAL PROTEIN L23A
gie Exon Pior	Top Hit Database Source	FN	¥	Į.	N	M	EST HUMAN	EST HUMAN	Į.	EST HUMAN	N	NT	T HIMAN	EST HUMAN	EST HUMAN		N L		T HUMAN		LN L	¥		Þ	卢						LN LN			EST_HUMAN
	Top Hit Acession No.	5031810 NT	8.0E-98 AB017007.1	8.0E-98 AB017007.1	J04469.1	8.0E-98 AL163201.2	110	AJ403124.1	3.0E-98 AB014607.1	3.0E-98 AA077498.1	11419210 NT	. 11419210 NT		2				11418177 NT		2		8331	Γ	2.0E-98 AF218902.1	9055269	9055269 NT	4758975 NT	7706512 NT	11428813 NT	11428813 NT		7705888 NT	11435947 NT	
	Most Similar (Top) Hit BLAST E Value	8.0E-98	8.0E-98	8.0E-98	8.0E-98 J04469.1	8.0E-98	4.0E-98	3.0E-98	3.0E-98	3.0E-98	3.0E-98	3.0E-98	3.0E-98 H46698 1	3.0E-98	3.0E-98/		3.0E-98 U59309.1	3.0E-98	2.0E-98	2.0E-98/	2.0E-98 AF032897	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98	2.0E-98 X12664.1	2.0E-98	2.0E-98	1.0E-98 AI862007.1
	Expression Signal	1.04	96.0	96.0	5.03	0.88	1.29	1.21	1.85	2.09	1.7	1.7	3.31	1.6	1.6		5.15	2.47	29.05	1.45	96.0	4.94	1.51	1.51	6.39	6.39	1.09	4.66	3.87	3.87	1.5	1.18	1.43	18.93
	ORF SEQ ID NO:	21304	21468		23424		25220		22329		26159	26160	27153		27760		28448		21816	21983	23880	23916	24390	24391	24711	24712	24795	25028	27073	27074	27572		25301	20172
	Exon SEQ ID NO:	11444	11597		13638	14921	19258	12019	12436	12582	16020	16020	16960	17535	17535		18199	19373	11924	12078	14099	14143	14606	14606	14939	14939	15029	15224	16881	16881	17367	17801	19026	10345
	Probe SEQ ID NO:	1540	1695	1695	3726	5049	9717	2131	2565	2720	6147	6147	7083	7685	7685		8322	9895	2033	2191	4199	4244	4720	4720	2069	2069	5163	5303	7007	7004	7497	7951	9350	399

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Single Exon Probes Expressed in Heart

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Single Exoli Probes Expressed in Heart	Top Hit Descriptor	PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA	yz3f05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243565 5' sImilar to PIR:S54204 S54204 ribosomal protein L29 - human :	2998-09.r1 Stratagene muscle 937209 Homo sepiens cDNA clone IMAGE:628240 5 similar to TR:G806562 G806562 NEBULIN :	Homo saplens beta-tubulin mRNA complete cds	Homo sapiens beta-tubulin mRNA complete cds	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA	tm69h07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST.	tm69h07x1 NCI_CCAP_Bm25 Homo saplens cDNA clone IMAGE:2163421 3' similar to SW:BID_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST.	zn90d02.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to TR:G862994 G682944 GPI.ANCHORED PROTEIN DA77	Human endogenous retrovirus, complete genome	Homo sablens oscillin (hi n) dene exm 5	Homo sablens NK-recentor (KIR-G2) gene Inker region even	Homo sabiens dysteine-rich reneat-containing professions (10054222)	Homo saplens cysteine-rich reneat-containing protein 352 precings, (LOCS1232), mixiva	EST388473 MAGE resequences, MAGN Homo saplens citina	Homo sepiens CD34 antigen (CD34) mRNA	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30	Homo saplens polycystic kidney disease (PKD1) gene, exons 27-30	H.sapiens mRNA for estrogen receptor	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds	Homo sapiens Icdestar protein mRNA, complete cds	Homo sapiens lodestar protein mRNA, complete cds	Homo sapiens BH3 interacting domain death agonist (BID), mRNA	Human protein C inhibitor (PCI-B) mRNA, complete cds	Human protein C Inhibitar (PCI-B) mRNA, complete cds	H.sapiens IMPA gene, exon 8	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 renion	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA	801513157F1 NIH MGC 71 Home sentens china cleas that Carona and actions that Carona and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions that the clean and actions the clean and actions that the clean actions the clean actions that the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean actions the clean action actions the clean actions the clean action action actions the clean action action action action actions the clean action a
JIE EXOLI PLOT	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST HUMAN	N	LN L	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	Z L	NT	NT		F	EST HUMAN	F	LN	NT		NT	NT			NT	Ν	K			T HIMAN
JIII	Top Hit Acession No.	1.0E-98 AW998611.1	1.0E-98 N49818.1	1.0E-98 AA195854.1	7	-	9.0E-99 AW968635.1	9.0E-99 AI479829.1	9.0E-99 AI479829.1	9.0E-99 AA134604.1	9635487	7.0E-99 AF035808.1	-	0555	11430555 NT	6.0E-99 AW976364.1	2660				1.1		6.0E-99 AF080255.1	11526299 NT	٠			\F009660.1	4758697 NT	
	Most Similar (Top) Hit BLAST E Value	1.0E-98	1.0E-98	1.0E-98	1.0E-98	1.0E-98	9.0E-99	9.0E-99	9.0E-99	9.0E-99	8.0E-99	7.0E-99	7.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99	6.0E-99 L43610.1	6.0E-99 L43610.1	6.0E-99 X99101.1	6.0E-99 /	6.0E-99 AF080255	6.0E-99	6.0E-99	5.0E-99 U35464.1	5.0E-99 U35464.1	5.0E-99 Y11365.1	5.0E-99 AF009660	5.0E-99	5.0E-99 BE890177
	Expression Signal	2.38	16.96	6.96	1.36	1.36	4.29	2.6	2.6	1.84	1.19	9.2	2.31	0.93	0.93	1.87	1.16	2.36	2.36	121	2.18	3.57	3.57	3.72	0.86	98.0	2.36	1.35	2.46	2.1
	ORF SEQ ID NO:	20212	21526	24953	27266	27267	25692	28602	28603	28817	27134	25550	28988	21863	21864	23517	24318	26047	26048	26787	27160	27213	27214	28241	20671	20672	21696	24148	24709	-
	Exon SEQ ID NO:	10391	11655	15178		17080	15590	18338	18338	18533	16942	15477	18695	11970	11970	13726	14530	15917	15917	16598	16966	17020	17020	17992	10827	10827	11817	14357	14936	19032
	Probe SEQ ID NO:	447	1756	5256	7203	7203	5681	8465	8465	8716	7065	5561	8884	2080	2080	3814	4642	6013	6013	6718	7089	7143	7143	8102	302	902	1922	4463	5066	9360

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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds	xp09e08x1 NCI_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCIE ISOFORM (HUMAN):	Human Ku (p70/p80) subunit mRNA, complete cds	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds	2546d06.r1 Scares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to gb:M15182 BETA-GLUCURONIDASE PRECIRSOR (HI IMAN):	Homo saplens myosin X (MYO10) mRNA. complete cds	Homo sapiens intersectin long isoform (ITSN) mRNA, complete cds	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA	Human Ku (p70/p80) subunit mRNA, complete cds	Homo sapiens fruncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds	Homo capiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds	Homo sapiens faity acid amide hydrolase (FAAH) gene, exon 14	Homo sapiens fatty acid amide hydrolase (FAAH) gene, excn 14	Homo sapiens chromosome 21 segment HS21C081	Homo saplens ALEX1 protein (LOC51309), mRNA	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711 O02711 PRO-POL-DUTPASE POLYPROTEIN	Homo sapiens mRNA for KJAA1005 protein, partial cds	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA	Homo sapiens Testis-specific XK-related protein on Y (XKRY) mRNA	xv78b11.x1 NCI_CGAP_Bm53 Homo saplens cDNA clone IMAGF-28248nF 3	Homo sapiens chromosome 21 segment HS21C006	Homo sapiens chromosome 21 segment HS21C049	EST02975 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCR32
Top Hit Database Source	E	EST HUMAN	F	F	EST HUMAN	N	٦	F	M	TN	Z	F	NT	노	TN	Ę	N F	Ę	EST HUMAN	TN		뉟	NT	NT	뉟	F	EST_HUMAN	N F	¥	EST_HUMAN
Top Hit Acession No.	M95586.1	2.0E-99 AW274792.1	2.0E-99 M30938.1	2.0E-99 AF095703.1	2.0E-99 W23507.1	7.2	1.0E-99 AF114487.1	11526150 NT	1		1.0E-99 AF192523.1	4503730 NT	4503730 NT		8.1		1.0E-99 AL163281.2	11419721 NT	74.1	1.0E-99 AB023222.1		6.1	7.2	7.2	11418230 NT	11418230 NT	37.1		1.0E-100 AL163249.2	
Most Similar (Top) Hit BLAST E Value	3.0E-99 M95586	2.0E-99	2.0E-99	2.0E-99	2.05-99	2.0E-99	1.0E-99	1.0E-99	1.0E-99 M30938	1.0E-99	1.0E-99	1.0E-99	1.0E-99	1.0E-99 J03171.1	1.0E-99 AF09801	1.0E-99 AF09801	1.0E-99	1.0E-99	1.0E-99 AW3401	1.0E-99		1.0E-99	1.0E-100 AL16324	1.0E-100 AL16324	1.0E-100	1.0E-100	1.0E-100 AW2752	1.0E-100 AL16320	1.0E-100	1.0E-100 T05087.1
Expression Signal	5.37	3.46	1.08	3.15	9.75	3.83	1.53	1.04		1.47	1.47	1.1	1.1	0.89	2.74	2.74	1.18	1.15	1.68	2.4		3.76	1.13	1.93	1.48	1.48	1.52	1.16	1.01	2.43
ORF SEQ ID NO:			22947	24127	27121	28583	20093	20152	21166	21298	21299	21656	21657	22766	23960				27557	28854			19780	19780	19859	19860	19883	19950	20095	20114
Exon SEQ ID NO:	16723	11128	13144	14337	16930	18324					11441	_				!	15063	17181	17353	18571			6866		\perp		10065		[10299
Probe SEQ ID NO:	6844	1219	3220	4443	7053	8451	312	375	1401	1537	1537	1885	1885	3046	4283	4283	5200	7305	7483	8683	2000	9120		7	62	62	8	162	314	340

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Table 4
Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | Homo sapiens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions | G.garilla DNA for ZNF80 gene hamalaa | RC3-HT0625-040500-022-b09 HT0625 Homo septiens cDNA | Homo sapiens DKF2P586M0122 protein (DKF2P586M0122) mRNA | Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA | UI-H-BI1-afik-c-07-0-UI:s1 NCI_CGAP_Sub3 Homo saplens cDNA clone IMAGE:2722164 31 | qf62f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN: | Rat mRNA for short type PB-cacherin, complete cris | H.saplens mRNA for IRN-damma (pKC-0) | Homo sapiens KIAA0957 profein (KIAA0957) mRNA | Homo saplens RGH2 gene, retrovirus-like element
 | Homo sapiens myotubularin-related protein 1a mRNA, partial cds | Homo sapiens follicle stimulating homone receptor (FSHR) mRNA | Homo sapiens small optic lobes (Drosophila) homolog (SQLH) mRNA | Homo sapiens small optic lobes (Drosophila) homolog (SOI H) mRNA | 801863164F1 NIH MGC 57 Homo saplens cDNA clone IMAGE 4080009 F
 | AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5' | Homo seplens NF-E2-related factor 3 gene, complete cds | AU140214 PLACE2 Homo saplens cDNA clone PLACE2000137 5 | yf38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134.31 | MR1-TN0046-060900-004-b05 TN0046 Homo saplens cDNA | MR1-TN0046-060900-004-bo5 TN0046 Homo saplens cDNA | Human mRNA for kidney epidermal growth factor (EGF) precursor

 | 601647357F1 NIH MGC 61 Homo sapiens cDNA clone IMAGE:3931310 5 | Homo sapiens chromosome 21 segment HS21C003 | Homo saplens mRNA for KIAA1485 protein, partial cds | wr37g09x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element | MER22 repetitive element;

 | PMo-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA | Homo sapiens mRNA for KIAA1626 protein, partial cds | Homo saplens mRNA for KIAA1626 protein, partial cds | hh83c11.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE-2969396 5'
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 | 1.49 | 1.87 | 3.07 | 3.07 | 1.8
 | 1.4 | 1.55 | 5.1 | 1.41 | 4.1 | 1.4 | 6.99

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 | 23796 | 23816 | 24665 | 24666 | 24924
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	Top Hit Descriptor	hh83c11.y1 NCL_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'	Human endogenous retrovirus HERV-K, pol gene	MR0-BN0070-270300-008-h11 BN0070 Homo saplens cDNA	H.sapiens CD97 gene exon 4	H.sapiens CD97 gene exon 4	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens golgin-like protein (GLP) gene, complete cds	Homo saplens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	garlos, comprete cos Homo saniens SH3-domain binding prodein 1 (SH3BD4)DNA	WINE (LIGHT) LIGHT IN THE LIGHT OF THE LIGHT	Tromo sapiens utanscobalamin II; macrocydc anemia (I CNZ), mKNA	rionio sapiens official (S. cerevisiae)-like 2 (SEC14L2), mRNA	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA	Homo sapiens mRNA for KIAA0446 protein, partial cds	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA	Homo saplens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylgnycinamide synthetase, CART) mRNA	Homo sapiens of cardiac alpha-myosin heavy chain gene	602156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297291 5	qg99e09.xt Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE;1843336 3'	Homo sapiens KIAA0569 gene product (KIAA0559), mRNA	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo saplens carboxypeptidase A1 (pancreatic) (CPA1) mRNA	RC3-ST0281-160600-016-h09 ST0281 Homo sapiens cDNA	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA	H.saplens EWS gene, exon 5	Homo sapiens RIBIIR gene (partial), exon 12	Homo sapiens RIBIIR gene (partial), exon 12	Homo saplens genomic downstream Rhesus box	Homo sapiens gamma-glutamytitansferase 1 (GGT1) mRNA
	Top Hit Database Source	Г	LN	EST HUMAN		FN.	N _T	LN LN		NT	Ė					· e							EST_HUMAN	EST_HUMAN				T_HUMAN		IN	E E	IN		
	Top Hit Acession No.	1.0E-100 AW630487.1		BF327292.1			1.0E-100 AF111170.3	3.3	7.2	5.1	1 0E-100 AE240786 1	15732	TIM A CO TO LA A	141/8/4	IN 4170117	/110/14	5.2	7110734 NT	7110734NT	7657454 NT	4503914 NT		3.1	.1	7662183 NT	7662183 NT	4502996	0.1	5729892 NT		.1	.1	1.0E-101 AJ252312.1	4885270 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-100	1.0E-100 Y10391.1	1.0E-100 BF327293	1.0E-100	1.0E-100 X94633.1	1.0E-100	1.0E-100 AF111170	1.0E-100 AL163247	1.0E-100 AF26628	1 0E-100	1 0E-100	7 00 7	1.05-100	1.05-101	1.0E-101	1.0E-101 AB00791	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101 Z20856.1	1.0E-101	1.0E-101 AI221878	1.0E-101	1.0E-101	1.0E-101	1.0E-101 BE84307	1.0E-101	1.0E-101 X72993.1	1.0E-101 AJ237744	1.0E-101 AJ237744	1.0E-101	1.0E-101
	Expression Signal	1.69	1.29	5.23	2.14	2.14	4.58	4.56	1.96	1.86	5.50	221	2 30	2	1 5	7	1.16	4.45	4.45	1.32	1.28	3.44	12.74	1.83	0.87	0.87	1.62	1.6	1.66	4.4	2.56	2.56	12.14	2.51
F	ORF SEQ ID NO:	27741		28275		28746		28832	19780		29114			l		13012	20422	20447	20448	20521	20612	20679	20741	20796	21483	21484	21677	21792	22080	22335	22468	22469		22897
	Exon SEQ ID NO:	17514	17866			18473		18549	6866	18738	18832		1	}	1	2001	10605	10621	10621	10684	10762	10832	10892	10954	11613	11613	11797	11902	12718	12443	12576	12576	12852	13092
	Probe SEQ ID NO:	7664	8016	8141	8606	9098	8660	8660	8688	8930	9048	9351	0700	3 5	2 5	\$	671	888	888	754	835	808	696	1036	1712	1712	199	2010	2301	2572	2714	2714	2925	3167

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	Top Hit Descriptor	601458537F1 NIH MGC 66 Home sanians cDNA class (NA CE 2000000 F)	EST377629 MAGE resemiences MAGI Hamp contact of the	Homo saniens RIBIIR dene (nertial), even 42	Homo sapiens Rikill Grane (nartie), even 40	Homo sapiens ASH31 nene complete cate challent to December 24	Homo sapiens butvronhilin suhfamily 2 mambar 44 / PTN/2543 — DN/4	Homo sepiens bulyrobilin, subfamily 2, intermed A1 (PTN/2A1), ritkNA	EST37212 MAGE resemblences MAGI Home sealons of the	Homo sapiens cytoplasmic linker 2 (CVI N2) mBN 4	Homo sapiens cytoplesmic linker 2 (CYI N2) mRNA	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA alternative calling form 4	Homo saciens Krupnel-twa zinc finner privisity (DECs) music, and naive spince form 4, partial dis	W65612.x1 NCI_CGAP_Gas4 Home canisme_PNA_class_NA_Crass_can_ac	601109217F1 NIH MGC 18 Home saniers con a close living E2222467 3	RC1-BT0313-220700-018-f12 BT0313 Home serious contact.	601764686F1 NIH MGC 63 Homo sabiens cDNA clone MAGG: 3006897 F	2K29g08.r1 Soares, pregnant, uterus, NbHPU Homo sapiens cDNA clone IMAGE:471998 5' similar to	Himon mBNA & consequent Lassassian - yeast;	Himan mRNA for nancreotic common clisters.	Homo sapiens ramma ah itamafrancia a 1707 ta 1	601472808T1 NIH MGC 68 Home series enter ANA Alma 144 CE 20175	601472808T1 NIH MGC 68 Homo saniens china IMAGE-2875682 3	Homo sapiens Janus kinase 2 (a protein trrosine kinase) (.IAK2) mRNA	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt,	Homo sapiens mRNA for KIA Anedo protein model all	OVI-DI0068-240200-085-and hitches Home continue cos	Homo sapiens chromosome 21 sermant HC2/C403	601108292F1 NIH MGC 18 Home seniors CONA class 1880 E 25 1525 E	Hamo sabiens down-regulated in adendma (DRA) with NA	Human andocenous retroviral DNA (4.4) Complete Artesian Complete	Homo sapiens solute carrier family 2 (facilitated discress transmitter) member o (c) on a contraction	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
	Top Hit Database Source	EST HUMAN	EST HUMAN	IN	LN	LN L	N	NT	EST HUMAN	1	N	TN	N	EST HUMAN		EST HUMAN	EST HUMAN	HOT LIMAN	NE TOWN	LN	L L	EST HUMAN	EST HUMAN	FN	ż	LZ	EST HUMAN	N	EST HUMAN	 - -	LNT	トラ	17
	Top Hit Acession No.	1.0E-101 BF035327.1	1.0E-101 AW965556.1	1.0E-101 AJ237744.1			1460	5921460 NT	39.1	7427512	7427512 NT	0.1	5.1	5.1	Γ			1 0E-101 AA036800 1			9845492	7	5	11429127 NT		5.1		Ĺ		7534		437146	11437146 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101	1.0E-101 AW9651	1.0E-101	1.0E-101	1.0E-101 AF20897	1.0E-101 AF20897	1.0E-101 AW00847	1.0E-101	1.0E-101	1.0E-101	1 0F-101	1.0E-101 X60069 1	1.0E-101 X60069.1	1.0E-101	1.0E-101 BE619667	1.0E-101 BE619667	1.0E-101	1.0E-101 S38327.1	1.0E-101	1.0E-101	1.0E-102	1.0E-102	1.0E-102	1.0E-102 M10976.1	1.0E-102	1.0E-102
	Expression Signal	2.16	1.67	1.75	1.75	4.83	1.67	1.67	4.1	3.73	3.73	4.16	4.16	5.63	1.56	5.3	2.65	1.15	16.52	16.52	18.4	5.64	5.64	1.76	2.88	1.78	11.62	3.24	0.89	1.46	1.95	1.39	1.39
	ORF SEQ ID NO:		23059	22468	22469		24609	24610	24954	25658	25659			26441		26581	26764	27274	26650	26651	27468	27694	27695	28040	28381	28586		20111	20350	20526	20859	21002	21003
	· 0	13127	13254	12576	12576	13712	14840		15179	15563	_		- 1		16330	16402	16573	17085	16458	16458	17263	17474	17474	17800	18132	18327	19189	10297	10540	10688	11017	11154	11154
	Probe SEQ ID NO:	3203	3334	3354	3354	3800	4965	4965	5257	5651	5651	6333	6333	6416	6471	6544	6683	7208	7446	7446	7454	7623	7623	7920	8252	8454	9610	338	8	758	143	1247	1247

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Single Exon Probes Expressed in Heart

- 1		Т	T	_	_	T	т	Т	Т	Т	Т	Т	Т	1	Т	Т	7	_	Γ.	Ϊ-	T	Γ,	T	T"	Ť~	٣	\mathbf{T}	T	T-	Ϊ	T	· ····································	T
Ongre LAVII I todes LAVII i todat	. Top Hit Descriptor	601299982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5'	em60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95 HUMAN D08379 GOLGIN-95	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to	SW:GG95_HUMAN Q08379 GOLGIN-95.;	Homo saplens KIAA0187 gene product (KIAA0187), mRNA	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'	Homo sapiens chromosome 21 segment HS21C007	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'	y32c04.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:140934 5'	Homo saplens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds	Homo sapiens histone deacetylase 7 (HDAC7), mRNA	Homo sapiens histone deacetylase 7 (HDAC7), mRNA	ar82f09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137	1515/ NDF022	Homo sapiens mRNA for Centaurin-alpha2 protein	AV710738 Cu Homo sapiens cDNA clone CuAAKD03 5	QV3-NT0025-210600-236-h08 NT0025 Homo sapiens cDNA	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'	AV694817 GKC Homo sapiens cDNA clone GKCEEE11 5'	AV694817 GKC Homo sapiens cDNA clone GKCEE111 5'	Homo sapiens mRNA for KIAA0454 protein, partial cds	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo saplens cDNA clone IMAGE:67021 5'	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA	RC-BT074-260499-014 BT074 Hamo sapiens cDNA	RC-BT074-260499-014 BT074 Homo sapiens cDNA	on57h04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to SW:CAV2_HUMAN P51636 CAVEOLIN-2. [1];	601439392F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924166 5
	Top Hit Database Source	EST_HUMAN	H. H. IMAN		3.1 EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	占	N F	N	F	144411	ESI HUMAN	LN.	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	N	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN
	Top Hit Acession No.	BE408447.1	A1124669.1		AI124669.1	7661979	AU141005.1	AU141005.1	AL163207.2		R66488.1	AF067133.1	AB034951.1	7705398 NT	TV05398 NT	7 20002714		AJ238994.1	AV710738.1	1.0E-102 BE763051.1	1.0E-102 BE910555.1	AV694817.1		AB007923.1	T70393.1	T70393.1	AU124629.1	11425430 NT	11425430 NT	Al905037.1	AI905037.1	1.0E-102 AA970786.1	1.0E-102 BE897468.1
	Most Similar (Top) Hit BLAST E Value	1.0E-102 BE40844	1 0E-102 AI124669		1.0E-102 A1124669	1.0E-102	1.0E-102 AU14100	1.0E-102 AU14100	1.0E-102 AL163207	1.0E-102 BE25131	1.0E-102 R66488.1	1.0E-102 AF06713	1.0E-102 AB03495	1.0E-102	1.0E-102	4 05 400	1.0E-10Z AI4598Z5.	1.0E-102 AJZ3899	1.0E-102 AV710738	1.0E-102	1.0E-102	1.0E-102 AV69481	1.0E-102 AV69481	1.0E-102 AB00792	1.0E-102	1.0E-102	1.0E-102 AU12462	1.0E-102	1.0E-102	1.0E-102 AI905037	1.0E-102 A1905037	1.0E-102	1.0E-102
	Expression Signal	90.24	1.34		1.34	1.51	5.61	5.61	1.46	2.11	1.09	1.88	7.27	3.46	3.46	7 10	40.7	6.56	2.53	42	2.53	1,36	1.36	4.06	1.52	1.52	3.58	2.03	2.03	2.9	2.9	2.3	2.38
	ORF SEQ ID NO:	21162	77077		22045	75727	22815	22816	23814	23994	24705	25025		25522	25523						26904	27014		27069	27448	27449	27490	28052	28053	28070	28071	28096	28549
	Exan SEQ ID NO:	11303	12145		12145		13021	13021	14039	14211	14933	15221	15433	15453	15453		\perp	\perp		16668		16823		16878				17811	17811	17831	17831	17855	18295
	Probe SEQ ID NO:	1398	2264		2261	3026	3094	3094	4139	4314	5063	9300	5515	5536	5536	C C C	0080	6351	6495	6787	6832	6945	6945	7001	7374	7374	7415	7961	7961	7981	7981	8005	8421

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ab10d12.s1 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains yw91d08.s1 Soares_placenta_Bto9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:259599 3' Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4 tm58b05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds UI-H-BW0-ajt-h-11-0-UI,s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3 seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3 Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds Homo capiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5' Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene) xk07c12.x1 NCI_CGAP_Co20 Homo sapiens cDNA clone IMAGE.2666038 3 601500405F1 NIH_MGC_70 Homo sapiens cDNA done IMAGE:3902305 5' 601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5' 601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5 601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5' Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA Homo sapiens nucleolar protein (KKE/D repeat) (NOP56) mRNA Top Hit Descriptor RC6-ET0072-150600-011-F01 ET0072 Homo sapiens cDNA Homo sapiens mRNA for KIAA0235 protein, partial cds Homo sapiens mRNA for KIAA1459 protein, partial cds Macaca mulatta cyclophilin A mRNA, complete cds Homo sapiens septin 2 (SEP2) mRNA, partial cds Homo saplens chromosome 21 segment HS21Co Homo sapiens neuropilin 1 (NRP1), mRNA element LTR10 repetitive element Single Exon Probes Expressed in Heart Q13769 ANONYMOUS. EST HUMAN EST HUMAN EST HUMAN HUMAN EST_HUMAN EST HUMAN EST_HUMAN **EST HUMAN** EST HUMAN EST_HUMAN EST_HUMAN Top Hit Database EST_HUMAN EST 눋 눋 눋 ż 눋 눋 눋 z z 눋 눋 4502428 NT 4507822 7657592 4502428 4507822 5453793 11430876 Top Hit Acession 1.0E-102 AW300862.1 AU134991.1 1.0E-103 AW 298245.1 1.0E-102 BF359243.1 1.0E-102 U41302.1 1.0E-102 AL163280.2 1.0E-103 BE877541.1 1.0E-103 N32770.1 1.0E-103 BE744722.1 1.0E-103 AB040892.1 1.0E-103|AA485663.1 1.0E-103|BE908158.1 AJ278348.1 AF012872.1 1.0E-103 AF060568.1 1.0E-103 AF023861.1 1.0E-103 AF053490.1 1.0E-103 AI590071.1 BE908158. 1.0E-103 AF179995. 1.0E-103 D87078.2 1.0E-103 T23683.1 .0E-103 1.0E-103 .0E-103 1.0E-103 1.0E-103 1.0E-102 1.0E-102 1.0E-103 .0E-103 1.0E-103 Most Simila BLASTE (Top) 計 2 3.02 2.43 1.08 2.78 0.82 90.0 3.44 1.06 1.39 1.99 8 <u>4</u> 0.82 0.83 62,7 1.27 1.57 22 5.37 <u>«</u> 5 Expression 25619 26069 23108 23611 28554 28807 29051 19989 20734 20985 21342 21643 21708 21709 22340 23058 23454 26027 19861 19894 ORF SEQ Ö N O O 15936 SEQ ID 18298 10049 10049 10078 11768 12449 12958 13310 13637 13670 13831 15903 18298 19183 10173 10888 11131 11482 13253 18525 11827 11827 12141 12278 13609 15534 18837 8424 2578 5619 6033 8708 9054 1932 3757 5998 SEQ ID 8424 8947 1223 1578 1872 3030 3333 3393 3695 9601 8 B 83 8 965 1932 2401 2257

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Single Exult Flobes Expressed in Loans	Top Hit Descriptor	tm58b05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;	Homo sapiens dystrophin (muscular dystrophy, Ducherne and Becker types), includes DXS142, UXS164, DXS206, DXS230, DXS239, DXS239, DXS269, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m,	mRNA	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker lypes), includes UXS142, UXS104, DXS206, DXS230, DXS230, DXS239, DXS239, DXS269, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m,	mRNA	EST377849 MAGE resequences, MAGI Homo sapiens culture	601571537F1 NIH MGC 35 Homo sapiens culva done invace 352525 31 similar to TR 013769	tm58b05x1 NCI_CGAP_Emzs Homo septens curva close invocation of contraction of con	tm58b05.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to 1 K:013769	Q13769 ANONYMOUS.;	EST27193 Human Brain Homo sapiens oLNA 5 end similar to None	AU140344 PLACEZ Homo sapiens curva cione PLACEZGUGO 4 3	AU140344 PLACEZ Homo sapiens curva cione Tracezoco 170	7(60e03.x1 Soares_NSF_F8_9W_O1_FA_F_S1 Harito Septents CUNA dudie invocation of SIMPLE SW.PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRIVA	H.sapiens mRNA for latent transforming grown factor-bera bitfolling protein (L.L. pr2)	ES13/3/49 MAGE resequences, making september of the IMAGE-2618326 5' similar to	aubigu4.yi Schreider retai brain booot mujib seprens contraction in total of the property of t	di02d06.y5 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to 1 K:G62084 U62084 PHOSPHOLIPASE C NEIGHBORING;	Homo sepiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	A11/36283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5	Homo seniens nolvovstic kidney disease (PKD1) gene, exons 27-30	Tessan of Scares NSF F8 9W OT PA P S1 Home sablens cDNA clone IMAGE:3287610 3' similar to	contains MER29.t3 MER29 repetitive element;	
IN EXOII LION	Top Hit Database Source	EST_HUMAN		NT		- 1	EST_HUMAN	EST HUMAN	EST_HUMAN		EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	뉟	EST HOMAN	EST_HUMAN	EST HUMAN	Į.	Į.	ECT LI IMAN	ESI TOWNS	2	EST_HUMAN	
Buig	Top Hit Acession No.	-		5032282 NT		5032282 NT		1.0E-103 BE748158.1	AI590071.1		AI590071.1	1.0E-103 T31080.1	1.0E-103 AU140344.1	1.0E-103 AU140344.1	1.0E-103 BF109244.1	6005921 NT	6005921 NT	237976.1	1.0E-103 AW963676.1	1.0E-103 AI878956.1	4 0E-403 AI792759.1	1 0E-103 AF149773.1		A11400000 4	1.0E-103 AU136283.1	1.01=-103 1.43610.1	1.0E-103 BE644611.1	
	Most Similar (Top) Hit BLAST E Value	1.0E-103 AJ590071.		1.0E-103		1.0E-103	1.0E-103 AW9657	1.0E-103	1.0E-103 AI590071		1.0E-103 AI590071	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103	1.0E-103			1.0E-103		Ĺ			1			
	Expression Signal	1.68		88		1.88	1.64	3.21	3.28		3.28	2.95	1.17	1.17	1.43	3.08	3.08	2.02	2.09	9.93						6.49	3.42	
	ORF SEQ ID NO:	26070		24878		24879					26608								27905	67676						2 28136	8 29070	
	Exon SEQ ID NO:	45006	0000	15402	70101	15102	16153	16201			16426		1			İ.	L.	L	17665	47778	1	18004			1	17892	18778	
	Probe SEQ ID NO:	600	2506	6000	788	6092	6289	6338	8228	3	6568	6823	7010	7010	70.60	7287	7267	7787	7815	7978		8110	8218	8218	8681	8743	8973	

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Table 4
Single Exon Probes Expressed in Heart

		Τ	Т	Т	Т	Т	Т	1	Т	Т	Т	Т	Т	Т	Т	Т''	т-	Т	Ť	T	T	Ť	T	<u> </u>	152	Τ	Т	Ť	$\overline{}$	T	T
Ongo Evol 1 topos Expressed III teat	Top Hit Descriptor	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo sapiens gene for AF-6, complete cds	DKFZp564H1072_r1 564 (synonym: hfbr2) Homo sapiens cDNA clone DKFZp564H1072 5'	DKFZp564H1072_r1 564 (synonym: htbr2) Homo sapiens cDNA clone DKFZp564H1072 5'	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA	zo22c06.s1 Stratagene colon (#9372c4) Homo saplens cDNA clone IMAGE:587626 3' similar to gb:Z14116 ma1 CD59 GLYCOPROTEIN PRECURSOR (HUMAN):	601577460F1 NIH_MGC_9 Homo septens cDNA clone IMAGE:3926438 5	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA	Human lymphocytic antigen CD59/MEM43 mRNA, complete cds	H.sapiens gene encoding phenylpyruvate tautomerase II	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo sapiens mRNA for KIAA1276 protein, partial cds	Homo saplens mRNA for KIAA1172 protein, partial cds	Human mRNA for fibronectin (FN precursor)	Homo sapiens chromosome 21 unknown mRNA	Homo sapiens chromosome 21 unknown mRNA	Human Down Syndrome region of chromosome 21 DNA	Human Down Syndrome region of chromosome 21 DNA	wj03b12.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN ;contains element LTR7 repetitive element:	wj03b12x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN :contains element LTR7 repetitive element	601150451F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3503220 5	601150451F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3503220 57	Homo sapiens edaptor-related protein complex 2, beta 1 subunit (AP2B1) mRNA	nad16g11x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'	Homo sapiens Trio isoform mRNA, complete cds	Homo sapiens Trio isoform mRNA, complete cds
פופ באטוו ו וסי	Top Hit Database Source	NT	Ν	NT L	EST_HUMAN	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	5031570 NT	FN	IN P	EST_HUMAN	TN	NT	N	NT	NT	N	NT	IN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	F	EST HUMAN	NT	TN
5	Top Hit Acession No.	1.0E-103 AF224669.1	11526291 NT	1.0E-103 AB011399.1	1.0E-104 AL037549.3	1.0E-104 AL037549.3	4502428 NT	5.1	8.1	1.0E-104 BF334221.1	3F334221.1	5031570	d34671.1	/11151.1	1.0E-104 AA319436.1	1.0E-104 AB033102.1	1.0E-104 AB033102.1	AB032998.1	(02761.1	VF231920.1	4F231920.1	143379.1	143379.1	AI768797.1	AI768797.1	3E314182.1	1.0E-104 BE314182.1	11425572 NT	3F448230.1	1.0E-104 AF091395.1	\F091395.1
	Most Similar (Top) Hit BLAST E Value	1.0E-103	1.0E-103	1.0E-103	1.0E-104	1.0E-104	1.0E-104	1.0E-104 AA13297	1.0E-104	1.0E-104	1.0E-104 BF33422	1.0E-104	1.0E-104 M34671.1	1.0E-104 Y11151.1	1.0E-104	1.0E-104	1.0E-104	1.0E-104	1.0E-104 X02761.1	1.0E-104 AF23192	1.0E-104 AF23192	1.0E-104 U43379.1	1.0E-104 U43379.1	1.0E-104 AI768797	1.0E-104 AI768797	1.0E-104 E	1.0E-104	1.0E-104	1.0E-104 BF44823	1.0E-104	1.0E-104 AF09139
	Expression Signal	1.72	2.65	2.21	2.6	2.6	1.81	7.16	1.91	1.15	1.15	1.55	7.64	2.82	1.54	0.99	0.89	0.91	4.28	6.0	6.0	1.33	1.33	8.46	8.46	1.52	1.52	2.38	2.24	4.66	4.66
	ORF SEQ ID NO:			25323			21617	21932	21944	22097		22159	22559			23260		23564	23957	24182	24183	25615	25616	25919	25920	26204	26205	26309	27363		27443
	Exon SEQ ID NO:	18833	18855	18979	10202		11741	12035	12044		12199		12770	12813	13265	13465	13465	13772	14179	14397	14397	15532	15532	15797	15797	16056	16056	16152	17164	17239	17239
	Probe SEQ ID NO:	9049	9079	9275	233	233	1845	2147	2157	2318	2318	2387	2842	2886	3345	3550	3550	3861	4280	4504	4504	5617	5617	5891	5891	6073	6073	6288	7288	7370	7370

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Single Exon Probes Expressed in Heart

		T	\exists		T	T	T		T	\neg	T	Ţ	Τ	\neg	T		T	T	T	Ť	Ť	Т	Ť	Ţ	T	Ť	T	Ī	T	Ť	Ť	Ŧ	Ī	=
Single Exon Probes Expressed in Heart	Top Hit Descriptor	11.3-H70619-080900-249-F07 H70619 Home services cDNA	11.3-HT0619-080900-249-F07 HT0619 Home senions cDNA	601581503F1 NIH MGC 7 Home senions cDNA dams NACE 20025077 E	601581503F1 NIH MGC 7 Homo services cDNA Acres NAA CE-2026A77 El	AV728070 HTC Homo sapiens cDNA clone HTCRYAN7 5	AU130765 NT2RP3 Home saniens cDNA clane NT2RP2004208 E	Human beta4-integrin (ITGB4) gene, exons 19.20 21.20.21.20.21.	IRCO-HT0885-310700-021-b09 HT0885 Homo senions china	IRCO-HT0885-310700-021-b09 HT0885 Homo capiene cDN4	602141215F1 NIH MGC 46 Homo seniens cDNA close IMACE (200567 F)	601312181F1 NIH MGC 44 Homo saplens cDNA clone IMAGE:3658676 5	Homo sanjens amvinid hets (A4) presument present (************************************	Homo sepiens Meist (moise) homeled (MEIS4) means	Homo saciens polassium channel subjuit (HERG-3) mBNA complete ad-	Homo sapiens potassium channel subunit (HERG-3) mRNA complete ada	Homo sapiens chromosome 21 seament HS21Chan	Human mRNA for KIAA0128 cene, partial cds	EST20609 Spleen I Homo sapiens cDNA 5' end similar to authimmine antioning V 201-50	no10d05.s1 NCI CGAP Phet Homo sepiens cDNA clone IMA CE-1400368 21	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 24 p22: seament 472	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (84728), mRNA	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA	Homo sapiens dermatopontin (DPT), mRNA	EST373761 MAGE resequences, MAGG Homo sapiens cDNA	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 51	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5	Homo saplens chromosome 21 segment HS21C008	Homo sapiens mRNA for KIAA0796 protein, partial cds	Homo sapiens mRNA for KIAA0866 protein, complete cds	Homo saplens mRNA for KIAA0796 protein, partial cds	Homo sapiens GTPase activating protein-like (GAPL), mRNA	Homo sapiens GTPase activating protein-like (GAPI.) mRNA	
JIO EXON PRO	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	L	L	N.	N	IN IN	LN LN	EST HUMAN	EST HUMAN	LN	NT					T HUMAN		Į.	NT	TN			
JUIC	Top Hit Acession No.	1.0E-104 BF352841.1	Ī	13.1	13.1	79.1	65.1	+-	91.1	91.1			4502166 NT	4505150 NT	1.0E-105 AF032897.1		1.0E-105 AL163280.2		59.1	38.1	1.1	7304922	7304922 NT	11425532 NT	88.1	71.1	н.1		19.1	3.1	9.1	11419196 NT	11419196 NT	
	Most Similar (Top) Hit BLAST E Value	1.0E-104	1.0E-104	1.0E-104 BE7917	1.0E-104 BE7917	1.0E-104	1.0E-104 AU1307	1.0E-104	1.0E-104 BE7201	1.0E-104	1.0E-104	1.0E-104	1.0E-105	1.0E-105	1.0E-105	1.0E-105 AF0328	1.0E-105	1.0E-105 D50918.	1.0E-105 AA3183	1.0E-105 AA5848	1.0E-105 AJ22904	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105 BEB6886	1.0E-105 BE86888	1.0E-105 AL16320	1.0E-105	1.0E-105 AB02067	1.0E-105 AB01833	1.0E-105	1.0E-105	
	Expression Signal	3.84	3.84	3.14	3.14	1.42	4.51	4.24	1.84	18.	4.49	1.37	2.86	16.85	322	3.22	1.16	1.75	1.64	0.87	2.57	0.93	0.93	1.26	2.15	0.84	0.84	3.74	0.95	2.23	1.3	3.06	3.06	
-	ORF SEQ ID NO:	26630	26631	27898	27899		28057	28110	28755	28756	28783		20062	19777	20323	20324	21:553	21655	21928			23032	23033		23689	24313	24314		24690	24740	24690	24840	24841	11100
	Exan SEQ ID NO:	16443	16443	17659	17659		17816	17864	18484	18484	18505	19340	12637	9866	10517	10517	11676	11780	12030	12554	12902	13228	13228	13508	13914	14526	14526	14735	14916	14965	14916	15124	15124	-
	Probe SEQ ID NO:	7430	7430	7809	5087	7947	7966	8014	8617	8617	8641	9842	277	419	579	579	1771	1884	2142	2689	2975	3307	3307	3282	4008	4638	4638	4822	2044	2032	5161	6167	6167	600

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Single Exon Probes Expressed in Heart

Expr. 100. DNC: Signal or			~	_	_	_				_	_	_							•	*4=	ner so	,.	*3004	38.64	•			4417	•	umr	******	* ****** *	**
Exam Most Smilar Most Smilar Top Hit Acession Top H	Typicased III near	Top Hit Descriptor	ws50c10.x1 NCI_CGAP_Bm25 Homo sepiens cDNA clone IMAGE:2500626 3' similar to	ULH-BIOD-Ship-10-10-20-30-30-20-17-20-17-20-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Homo sapiens SMARCA4 lectors (SMADCA4)	Homo sapiens COI 448 rene for all N. A. II.	Homo saplens Ran binding profein 11 (1 OC54164) mBN/A	wv74f07.x1 Soares_thymus_NHFTh Homo sapiens cDNA done IMAGE:2635301 3' similar to TR:P87892	III-HEBNO-SHA-AZA-III-H NIU MOO ENTI	10.11 STOTEM STONE CONTROL TO HOME SECTION OF THE S	FST377629 MAGE recented to MACH Line Supremental Control of the Co	Human dihydrofolate reducises according (2.17)	Human dihydrofolata reduciase pseurdoene (psi-nd.)	omo sanjane soluble nauvolin 4 <u>DNA</u>	Human epidermal growth factor recentor (FOED) processes and the control of the co	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA done IMAGE:937352 3' similar to contains element	ng41c05.s1 NCI_CGAP_Go3 Homo sepiens cDNA clone IMAGE:937352 3' similæ to containe element	LTR3 repetitive element;	MrV0-H 10165-140200-008-d10 HT0165 Homo sapiens cDNA	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA	Homo sapiens X-linked anhidrolitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions	Homo saplens sperm membrane profein BS 83 mBNA semalate of	501149783F1 NIH MGC 19 Homo sanians cDNA clime IMAGE-3502464 #1	176h10.xf Sogres NhHMPu St Home canlane c DNA control of the state of	domo sapiens d'utathione S-transferase thate 4 (CCTT4)okka	omo sapiens chifeffine S. transferage there (2007 to 1), mixing	Tomo saplens mRNA for KIAA1326 protein martial and	Omo sanjans mRNA for KIA 4420s metric parties of	Ono sapiens hypothetical protein El 144222 (El 144222)	damo saniane bundhaifea ambah El 14372 (E 14170), IIICNA	dono saplens nene for activin recentor two IID	Homo sapiens mRNA for KIAA1278 protein, partial cds	4
Exon NO: ORF SEQ ID NO: Expression Signal (Top) Hit Value Top Hit Acess No. 16773 26967 1.8 1.0E-105 AW007194.1 17111 27304 2.99 1.0E-105 AW007194.1 18459 28740 2.99 1.0E-105 AW0076879.1 18469 28740 2.05 1.0E-105 AW0076879.1 10119 28987 2.01 1.0E-105 AW0076879.1 10527 20334 1.0E-105 AW0076856.1 10627 20334 1.0E-106 AW056566.1 10627 20334 1.0E-106 AW056566.1 10627 20334 1.0E-106 AW056566.1 11413 21272 2.66 1.0E-106 AW056566.1 11567 21444 4.51 1.0E-106 AW05656.1 11568 2153 5.12 1.0E-106 AR527446.1 11569 21533 5.12 1.0E-106 AR52746.1 12429 22322 1.26 1.0E-106 AR52	פוס ביאסוו ווסים	Top Hit Database Source	EST HUMAN	EST HUMAN	NT	LN L	NT	EST HIMAN	EST HIMAN	EST HUMAN	EST HUMAN	LN	Z	LZ	Z	FOT LIBRARI	NYMOL TO A	EST HUMAN	ESI HUMAN	N	F	NT	Г	T HUMAN		5	F						
Exan ORF SEQ Expression Mo NO: Signal B NO: Signal B 16773 26967 1.8 17111 27304 2.99 18181 28428 5.44 18469 28699 1.18 10179 20286 1.21 10473 20286 2.01 10473 20286 1.77 10527 20334 1.21 10473 20286 1.77 10527 20334 1.21 10527 20334 1.21 10527 20334 1.21 10527 20334 1.21 11413 21272 2.66 1156 21444 4.51 11661 21638 1.08 12632 22052 8.39 12428 22324 1.26 12431 22324 1.26 12431 22324 1.26 12837	5	Top Hit Acession No.	AW007194.1	AW016879.1	AF254822.1	D63548.1	7705936	1 22	208.1		AW965556.1	100146.1		12.1	_	A527448 4				4504184	28.1	2	1.1	5.1	4504184	4504184	Γ		2965	8922965			
Exan SEQ ID NO: ORF SEQ Expression Signal No: Signal Signal No: Signal Signal No: <		Most Similar (Top) Hit BLAST E Value	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-105	1.0E-108	1.0E-106/	1.0E-106/	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1 0F-106 A		1.0E-106	100	1.05-100	1.0E-106 A	1.0E-106 U	1.0E-106 B	1.0E-106 A	1.0E-106	1.0E-106	1.0E-106 A	1.0E-106 A	1.0E-106	1.0E-106	1.0E-106 A	1.0E-106 AB033104.1	
Exan SEQ ID OR NO: NO: NO: 16773 16773 17111 18181 18459 18459 18459 18459 10170 10170 10170 11576 12423 12423 12433 12433 12433 12591 12591 12591 12837 12837 12837 12837 12837 12837 12837 12837 12837 12837 12837 13248 132		Expression Signal	1.8	2.99	5.44	1.8	2.06	2.01	0.96	1.54	1.77	0.79	1.21	2.66	4.51	5.12		2 20	000	60.0	1.63	1.25	1.94	4.23	2.97	2.97	5.01	5.01	2.36	2.36	0.8	0.98	
												20334	20334	21272	21444	21533	24834	21858	22052	7007	22229	22322	22324	22487	21183	21184	22635	22636	22867	22868	23053	23109	
Probe SEQ ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:		Exch SEQ ID NO:	16773	l		18430	18469	18679	10119	10170	10473	10527	10527	11413	11576	11661	11681	11965	12153		12333	12420	12431	12591	11319	11319	12837	12837	13068	13068	13248	13311	
		Probe SEQ ID NO:	6894	7234	8303	8560	8602	8867	145	198	531	289	280	1508	1674	1762	1782	2075	2269		2456	2557	7229	2729	2795	2795	2911	2911	3143	3143	3328	3394	

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	Top Hit Descriptor	Homo sapiens mRNA for KIAA1278 protein, partial cds	EST386875 MAGE resequences, MAGN Homo sapiens cDNA	EST386875 MAGE resequences, MAGN Homo sapiens cDNA	MR0-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA	Homo sapiens dystrophin gene, exan 41	aj24b09.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);	602154012F1 NIH, MGC 83 Homo sapiens cDNA clone IMAGE:4295067 57	Homo sapiens xylosytransferase II (XT2), mRNA	Homo sapiens xylosyltransferase II (XT2), mRNA	ee72e07.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);	Homo sapiens XPMC2 protein (LOC57109), mRNA	801105736F1 NIH_MGC 15 Homo sapiens cDNA done IMAGE:2988345 5'	Homo sapiens sorting nexin 11 (SNX11), mRNA	Homo sapiens sorting nextr 11 (SNX11), mRNA	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 67	801594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5	ar68a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233 CALGRANULIN B (HUMAN);	1y62a05x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283632 3' struitar to SW:ICA6_HUMAN Q05084 69 KD ISLET CELL AUTOANTIGEN:	oc67e08.s1 NCI_CGAP_GCB1 Home sapiens cDNA clone IMAGE:1354790 31	oo67e08.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354790 3'	cn03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC cn03a04 random	tm41f02.x1 NCI_CGAP_Kid11 Homo sepiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 TAR1 PTR5 repetitive element:	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3 TAR1 PTR5 repetitive element	601671674F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE:3054403 5	601671674F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE 3054403 5	np57b10.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'	np57b10.s1 NCL CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'
	Top Hit Database Source	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	EST HUMAN	IN	Z	EST_HUMAN	님	EST HUMAN	NT L	TN TN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN
	Top Hit Acession No.	1.0E-106 AB033104.1	1.0E-106 AW974650.1	1.0E-106 AW974650.1	1.0E-106 BE144286.1	1.0E-106 L41644.1	1.0E-106 AA781155.1	BF679574.1	11545913 NT	11545913 NT	AA663779.1	11429617 NT	2.1	11425503 NT	11425503 NT		1.0E-106 BE741408.1	AJ523066.1	1.0E-106 Al654123.1	1.0E-106 AA825307.1	1.0E-106 AA825307.1	1.0E-106 AI750447.1	<u>.</u>	1.0E-106 AI479569.1	1.0	1.0	7.1	7.1
	Most Similar (Top) Hit BLAST E Vafue	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-108	1.0E-106 BF67957	1.0E-106	1.0E-106	1.0E-109 AA66377	1.0E-106	1.0E-106 BE29272	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106 AI523066	1.0E-106	1.0E-106	1.0E-106	1.0E-106	1.0E-106 AI479569	1.0E-106	1.0E-106 BF02731	1.0E-106 BF02731	1.0E-106 AA60441	1.0E-106 AA60441
	Expression Signal	0.98	7.22	7.22	1.21	1.21	2.98	6.78	16.4	16.4	5.59	4.83	1.35	7.6	7.6	5.33	5.33	. 1.48	3.16	1.86	1.86	2.79	1.86	1.86	1.32	1.32	5.83	5.83
	ORF SEQ ID NO:	23110		23635	24176		25022	25722	25891	25892	26385	26412	26453	26517	26518	26733	26734	26821	27120		27354	27419	27501	27502	27890	27891	27975	27976
	Exon SEQ ID NO:	13311		13860		15047	15219	15619	15772	15772	16224		16292			16537	16537	16633	16929	17158	17158	17219	17291	17291	17653	17653	17730	17730
	Probe SEQ ID NO:	3394	3952	3952	4497	5183	5298	5711	5866	5866	6361	6390	6431	6490	6490	6657	299	6754	7052	7281	7281	7351	7424	7424	7803	7803	7880	7880

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Nost Similar	-	Τ'''	\top	7	Т	T	Т	Т	T	Ţ <u>"</u>	T	Ť	7	T	Т	T	T	T	7	Т	T	T	Т	T	T		
Most Similar Top Hit Acess BLAST E No. Value SLAST E No. Value 1.0E-107 Al392850.1 1.0E-107 BE540550.1 1.0E-107 BE540550.1 1.0E-107 BE206042.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL686001.1 1.0E-108 AL686001.1 1.0E-108 AL686001.1 1.0E-108 AL6860001.1 1.0E-108 AL68600001.1 1.0E-108 AL68600001.1 1.0E-108 AL68600001.	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds	601444922F1 NIH_MGC_65 Homo sapiens cDNA done IMAGE:3848980 5'	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5	RCo-HT0372-241199-031-d03 HT0372 Homo saplens cDNA	Homo sapiens PSN1 gene, alternative transcript	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA	Human hepatocyte nuclear factor 4-alpha gene, exon 2	Human hepatocyte nuclear factor 4-alpha gene, exon 2	hi12a11.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE P65194 SH3-BINDING PROTEIN 3BP-1.	Homo saplens pericentriolar material 1 (PCM1) mRNA	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2983899 3' similar to gb:X53777 60S RIBOSOMAL PROTEIN L23 (HUMAN): db:J05277 Mause hexoknase mRNA complete cds (Mol ISE)	#91e10x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);	(1916/10x1 NCI_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);	Homo sapiens NF2 gene	601177018F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:3532348 5	ze45e01.s1 Scares retina N2b4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1 THR repetitive element;	Homo sapiens HSPC049 protein (HSPC049), mRNA	Homo sapiens HSPC049 protein (HSPC049), mRNA	601066681F1 NIH MGC 10 Homo sapiens cDNA clone IMAGE:3452829 5	602123963F1 NIH MGC 56 Homo sepiens cDNA clone IMAGE:4281039 5	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4	Ig10d06.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI_P05095 ALPHA-ACTININ 3, NON MUSCULAR;	Top Hit Descriptor	oes Expressed in Heart
Most Similar Top Hit Acess BLAST E No. Value SLAST E No. Value 1.0E-107 Al392850.1 1.0E-107 BE540550.1 1.0E-107 BE540550.1 1.0E-107 BE206042.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL686040.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL68601.1 1.0E-108 AL686001.1 1.0E-108 AL686001.1 1.0E-108 AL686001.1 1.0E-108 AL6860001.1 1.0E-108 AL68600001.1 1.0E-108 AL68600001.1 1.0E-108 AL68600001.	<u> </u>	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN	NT	Z	IN	EST_HUMAN	NT	TN	N.	EST HUMAN	EST_HUMAN	EST_HUMAN	N-	EST_HUMAN	EST HUMAN	FN	FN	EST HUMAN	EST HUMAN	N.	EST_HUMAN	Top Hit Database Source	Jie Exon Pro
	7.1	7.1					7661979				5453855			BE206694.1	Al686040.1	AI686040.1	Γ			11419701	11419701	BE540550.1	BF666511.1		Al392850.1	Aces:	Suic
Signal Signal Signal Signal Signal 1.82 1.73 1.88 1.99 1.27 7.2 7.21 1.98 1.99 1.199	1.0E-108 AF26471	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-108	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	1.0E-107	Most Similar (Top) Hit BLAST E Value	
	5.06	5.06	2.77	2.77	1.53	2.19	2.85	1.99	1.99	1.33	0.92	0.94	0.94	7.2	7.41	7.41	1.55	1.46	3.94	4.21	4.21	9.12	1.98	1.82	2.73	Expression	
8 0	25746	25745	25167	25166	25120	24528	24376	24107	24106	23744	23437	23029	23028	22150			20889			28123	28122					ORF SEQ ID NO:	
	1 1	15640	15312	15312	\perp	. 1	- 1	14320	14320														18204		L	Exan SEQ ID NO:	
Probe SEQ ID NO: 8087 8337 8697 8697 8697 8697 8697 8697 8697 869	5732	5732	5393	5393	5366	4868	4699	4425	4425	4065	3742	3305	3305	2378	2282	2282	1244	939	9187	8697	8697	8638	8327	8316	8087	Probe SEQ ID NO:	

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Table 4
Single Exon Probes Expressed in

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens cavedin-1/-2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and	Homo canians Gardela combined construction of the Construction of	Home sentence della 8 f. 4. 11 1	Homo sapiens connective fieste grands factor illo	Home carless a MANA or Calain action and a second of the complete cds	EST378258 MAGE resembles NACT U	Homo sapiens G protein-coupled recentor 48 (GDD 40) - BNA	ttöfefö.xi NCI_CGAP_Pr28 Home saplan s DNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOCI YCAN II PRECI IPSCO (uninsan.	tt91e10.x1 NCI_CGAP_PT28 Home spliens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE	LICEL COLLICORN II PRECURSOR (HUMAN);	Profito Saptens mixture for FLJU0037 protein, partial cds	UZZ 1937 IT I NCI_CGAP_BM67 Homo sapiens cDNA clone IMAGE:4154297 5	Trulian IIIrNVA IOT NIAAUZZU gene, partial cds	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA	Home series second different in the calcium binding domain (RCN1), mRNA	Home services teatinicapepude repeat domain 2 (TTC2) mRNA	Home seriens ar DNA 6 VIA Anno	From septems marks for nikkhusev protein, partial cds	Homo septens nucleolar phosphoprotein BZ3 (NPM1) mRNA, complete cds	Homo caniene mBNA for I/1A Andre	Homo saniens chrimosoms 24	Homo sapiens SNF5/INIA nene even 8	ow95a01.x1 Soares_fetal_iver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' sImIlar to TR-002197 Choract Clone in A Thic Contract Contrac	ow95a01x1 Soares feel liver spleen 1NFLS_S1 Homo sepiens cDNA clone IMAGE:1654536 3' similar to	Homo saniens misurate and the call Hobic ANTIGEN.	J2816F Human fetal heart, Lambda ZAP Express Human canions control and a control of the control	FINGER PROTEIN ZNF43	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
gle Exon Pro	Top Hit Database Source	L		TN	Į.	Z	EST HUMAN	1	EST HUMAN	EST HIMAN	NT - VI	EST HIMAN	TN TN	į į		LN	1	FX	-LN	LN L	LN	L	NT	EST HUMAN		A CANCEL				EST_HUMAN
Sin	Top Hit Acession No.	AJ133269.1	11431857	4758333 NT	1.0E-108 AF083500.1		185.1	1465	5					114224BB	11438391 NT	4507712 NT	1.0E-109 AB023216 1	Γ			2	42	Γ		-	4504206			92.1	92.1
	Most Similar (Top) Hit BLAST E Value	1.0E-108 AJ1332	1.0E-108	1.0E-108	1.0E-108	1.0E-108 Y12490	1.0E-108	1.0E-108	1.0E-108 AI68604	1.0E-108	1.0E-108	1.0E-108 BF3463	1.0E-109 D86974	1.0E-109	1.0F-109	1.0E-109	1.0E-109	1.0E-109 AB0232	1.0E-109 M28699 1	1.0E-109 M28699.1	1.0E-109 D13643	1.0E-109	1.0E-109 Y17123.	1.0E-109 AI022328.1	1.0E-109 Ai022328	1.0E-109		1.0E-109 N85190.	1.0E-109 AW8931	1.0E-109 AW8931
	Expression Signal	1.37	5.35	3.34	1.93	2.77	4.26	2.03	4.14	4.14	2.79	5,59	0.9	0.92	1.51	3.64	14.64	14.64	9.63	4.89	1.48	2.03	1.97	3.88	3.88	2.75	. ,	1.88	- 4 0	1.45
	ORF SEQ ID NO:	25804	26265	26421		24891	28731		22063	22064	25303		19856	19997	20003	20219	20328	20329	20941	20941	21602	21985	21993	22344	22345	22346	27.200	22060	00000	20000
	Exan SEQ ID NO:	15695	16113	16260				18565	12166	12166	19030	19270	10044	10183	10192	10403	10521	10521	11095	11095	11728	12081	12091	12452	12452	12453	42040	12062	13262	Iveve
	Probe SEQ ID NO:	5789	6247	6388	8699	8202	8593	8677	8706	8706	9357	9736	28	212	222	459	583	883	1184	1185	1831	2194	2204	2581	2581	2682	3030	3345	3342	72.55
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Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA	2b08b12.r1 Soeres_fetal_lung_NbHL19W Homo saplens cDNA clone IMAGE:301439 5' similar to PIR:S43969 S43969 p54-beta stress-activated protein kinasss - rat:	Homo saplens SNF5/INI1 gene, exon 6	Homo sapiens gene for AF-6, complete cds	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2. mRNA	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA	Homo sapiens leucine zipper-like transcriptional regulator, 1 (LZTR1), mRNA	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC3467	Homo sapiens deiodinase, lodothyronine, type II (DIO2), transcript variant 2, mRNA	Human mRNA for Inward rectifier potassium channel, complete cds	Human dystrobrevin (DTN) gene, exon 20	Homo sapiens calcitonin receptor-like (CALGRL) mRNA	Homo saplens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B crimpters cols	601237545F1 NIH MGC 44 Homo sapiens cDNA clone IMAGE:3609683 5	UI-H-BI4 acs-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3:	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein	(L44L) and FTP3 (FTP3) genes, complete cds	Homo saplens pregnancy-zone protein (PZP), mRNA	Homo sapiens pregnancy-zone protein (PZP), mRNA	bb82a05.y1 NIH_MGC_10 Home sapiens cDNA clone IMAGE:3048848 5' similar to TR:O60312 O60312 KIAA0568 PROTEIN;	ou3Zb10.x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:1627963 3' similar to SW:N121 RAT P6560 N I/C FAR ENVELOPE DODE MEMBANE BEOTERN POXAGE	AU117812 HEMBA1 Homo segiens cDNA clone HEMBA1002241 F	Homo saplens KIAA1002 protein (KIAA1002), mRNA	601118710F1 NIH MGC 17 Homo saplens cDNA clone IMAGE:3028538 57	Homo sapiens hypothetical protein FL/10300 (FL/10300), mRNA	Homo saplens hypothetical protein FL/10300 (FL/10300), mRNA	Human cystic fibrosis transmembrane conductance reculator (CFTR) name, even 7	AV714276 DCB Homo sapiens cDNA clone DCBCGE015	AV714276 DCB Homo sapiens cDNA clone DCBCGE01 5'	Homo sapiens mRNA for KIAA0868 protein, partial cds
1	Top Hit Database Source	NT	EST HUMAN	NT	NI	N	F	Ā	EST_HUMAN	N	N	F	F	NT	EST_HUMAN	EST_HUMAN	Į.		LN	NT	INT	EST_HUMAN	EST HUMAN	EST HUMAN	NT	EST HUMAN	F	N FN	Į.	EST_HUMAN	EST_HUMAN	<u>F</u>
	Top Hit Acession No.	4502838 NT	W16510.1	Y17123.1	1.0E-109 AB011399.1	7549804 NT	5803073 NT	5803073 NT	C04498.1	7549804 NT	J87291.1	J84550.1	5031620 NT	AB032253.1	1.0E-110 BE379477.1	1.0E-110 BF508898.1	4503098 NT		J78027.1	11436041 NT	11436041 NT	1.0E-110 BE018556.1	A1017213.1	NU117812.1	7662441 NT	3E299406.1	11419323 NT	11419323 NT	A55112.1	1.0E-110 AV714276.1		1.0E-110 AB020675.1
	Most Similar (Top) Hit BLAST E Value	1.0E-109	1.0E-109 W1651	1.0E-109 Y17123	1.0E-109	1.0E-110	1.0E-110	1.0E-110	1.0E-110 C04498	1.0E-110	1.0E-110 D8729	1.0E-110 U84550.1	1.0E-110	1.0E-110 AB032	1.0E-110	1.0E-110	1.0E-110		1.0E-110 U78027	1.0E-110	1.0E-110	1.0E-110	1.0E-110 A10172	1.0E-110 AU1178	1.0E-110	1.0E-110 BE2994	1.0E-110	1.0E-110	1.0E-110 M55112.1	1.0E-110	1.0E-110	1.0E-110
	Expression Signal	2,19	4.83	1.65	2.8	1.48	3.88	3.88	30.63	1.67	0.91	1.16	1.09	1.01	1.5	1.86	1.02		1.07	1.87	1.87	0.92	2.06	2.08	234	1.9	7.34	7.34	4.36	10.04	10.04	2.7
	ORF SEQ ID NO:	28848	28810	21993	25275	19781	19817	19818							21650					22885	22886	23650	24207	24232		24929	25492	25493	26068	26413	26414	26432
	Exan SEQ ID NO:	18564	18527	12091	19176	9990	10021	10021	10059	9990	10255	10458	11076	11165	11775	11904	12739		12975	13083	13083	13873	14426	14447	14778	15161	15429	15429	19458	16253	16253	16270
	Probe SEQ ID NO:	8676	8710	9259	9294	3	34	34	75	104	291	516	1163	1258	1879	2012	2810	1	3048	3158	3158	3966	4533	4555	4898	5237	5511	5511	6032	6391	6391	6409

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Note Similar Top Hit Acessicn Top Hit	1		—т	$\overline{}$		_	7		_	-		_		_				_				771111		- 1441		-/111	- 701+		****	·· - ***		
Note Similar Top Hit Acessicn Top Hit Acessicn Top Hit	Jes Expressed in Hear	Top Hit Descriptor	OV2-1 T0053-020400-110-e04 T0053 Home accident -DNA	Home saplans deladokinasa 2 (QALVa) - DitA	H. saplens mRNA for mydnife dwstranburszkie i i i i i i i i i i i i i i i i i i	601565604F1 NIH MCC 24 Home conjune a NIA Alexandra Alex	801565604F1 NIH MGC 21 Homo serviens cDNA clone IMAGE:3840433 6	zw67g02.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816	801439784F1 NIH MGC 72 Home company of the contract of the con	10.BT0163-040899-094-010 BT0163 Home Senions CONA Globe INAGE:3924548 5	Homo sabiens gene for AE-6 complete ade	PM3-NN1082-140900-006-f12 NN1082 Homo serviers CONA	Human ribosomal brotein I. 23a mRNA complete cits	Homo sapiens ras GTPase activating profesional like (NICAD) with N	601458531F1 NIH MGC 68 Homo saniens c DNA clama INACE pessons E	Homo saplens cat eve syndrome critical region gans 1 (CECP4) BNA	Human cardiac alpha-myosin heavy chain (MVHR) gains aware 32 to 34	Homo sapiens sex comb on midled homolog 4 (SCAM44) TONIA	Homo sapiens sex comb on midlen homeles 4 (SCALIA)	Homo sapiens DKF7P44A146 motein (DKF7P44A14Es)	Human enkephalin B (enk8) gene, exon 4 and 3' flank and complete add	247b07.r1 Soares_pregnant_uterus_NbHPU Homo sapians cDNA clone lIMAGE:505045 5' similar to	247b07.r1 Soares, pregnant, uterus, NbHVD Homo sapiens oDNA clone IMAGE:505045 5' similar to	apugg12x1 NCI_CGAP_Kid5 Home sapiens cDNA clone IMAGE:1917574 3' similar to gb:M29893 RAS-	SALTON SECTION AS THE SECTION OF SECTION SECTION AS THE SECTION AS	2007 Oct. 19-200 Oct. 14-203 N 10101 Homo sepiens cDNA 2002 12.11 Stratagene muscle 937209 Homo sepiens cDNA clone IMAGE:562774 5' similar to ch. X03740	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);	-luman bete4-integrin (ITGB4) gene, exon 13	301847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5	ruman mikiny tor integrin alpha-2 subunit	Homo sabiens Trio isoform mRNA complete At-	en analysis of the second seco
Signal Most Similar Top Hit Acess Signal Top Hit Acess No. Signal Value No. 2.91 1.0E-110 11432 3.7 1.0E-110 HAR383394.1 3.49 1.0E-110 HE734357.1 3.49 1.0E-110 HE734357.1 3.49 1.0E-110 HE734357.1 4.15 1.0E-110 HE734357.1 5.07 1.0E-110 HE734357.1 4.15 1.0E-110 HE734357.1 5.07 1.0E-110 HE734357.1 4.15 1.0E-111 HA7011399.1 5.07 1.0E-111 HA7011399.1 5.07 1.0E-111 HA7011399.1 73.62 1.0E-111 HA70117.1 1.0F-111 HA154679.1 2.29 1.0E-111 HA133914.1 3.03 1.0E-111 HA133914.1 3.13 1.0E-111 HA133914.1 3.13 1.0E-111 HA133914.1 3.13 1.0E-111 HA133912.1 1.0E-111	אום רצמוו ג.ומו	Top Hit Database Source	EST HUMAN	1.	Ę	EST HUMAN	EST HUMAN	EST HUMAN	EST HIMAN	EST HUMAN	F	EST HUMAN	F	NT	11-	1	Z E	¥	 	ラ	7		\Box		Т	_	$\neg \uparrow$	Т	HOMAN		Į.	
Expression (No. 2.91 Signal Bignal Bi		Top Hit Acession No.	AW838394.1	11432732	Y12337.1	BE734357.1	BE734357.1	AA446529.1	BE897218.1		Γ			4758807	27.1	8393092		6912641	6912641	7661569	-			3				Ì	27		95.1	1
Signature Signat		Most Similar (Top) Hit BLAST E	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-110	1.0E-111	1.0E-111	1.0E-111	1.0E-111		1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	4 00 444	1 OF-111		1.05-111/	1.00.	1.00-1	1.0E-111 X17033	1.0E-111/	
AF SEQ D NO: 27583 28462 28463 28463 28463 28463 2834 2834		Expression Signal	2.91	4.27	3.7	3.49	3.49	2.43	4.15	5.78	1.63	5.07	16.85	1.02	1.87	3.58	73.62	1.17	1.17	1.08	4.45	282	282	1 74	3.03		2.29	400	13.75	13.75	3.26	
		ORF SEQ ID NO:				28462	28463							19978		20489	20684	23342	23343	23760	23909	25117	25118	25685	26423	0000	22002	20002	27221	27222	27321	
		Exen SEQ ID NO:	L_	L.	L		18211	17889	18857	18935	19080	19684	10140	10161	10650	10658	10835	13556	13556	13982	14133	15284	15284	15584	16263	16407	16874	16990	17026	17026	17128	
Probe SEQ ID NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:		Probe SEQ ID NO:	7523	7915	8130	8334	8334	8740	9081	9204	9444	9578	168	<u>\$</u>	718	726	911	3642	3642	4080	4235	5364	5364	5675	6402	6670	6795	7113	7149	7149	7251	

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Single Exon Probes Expressed in Heart

Public Extra Public Extra Top Hi Ancested Top Hi Ances					_	_	Т	_	_	1	Т	Т	_	_	_		_	_	_	_	-4-						_		-			
Exon NO: ORF SEQ Signal Expression (Top) Hit Signal Most Similar (Top) Hit Austre Top Hit Accession Value Top Hit Accession Source Top Hit Source 17690 27935 1.51 1.0E-111 AA504160.1 EST_HUMAN 17743 27986 6.35 1.0E-111 AA312248.1 EST_HUMAN 18277 28529 4.52 1.0E-111 AA312248.1 EST_HUMAN 19422 25172 1.39 1.0E-111 AA31248.1 EST_HUMAN 10528 20336 2.66 1.0E-112 LV280460 NT 10529 20337 4.49 1.0E-112 LV2803.1 NT 10560 20338 4.49 1.0E-112 LV2803.1 NT 10560 20338 1.48 1.0E-112 LV5103.1 NT 10560 20338 1.48 1.0E-112 LV5103.1 RST_HUMAN 10561 20424 1.0E-112 LV5103.1 RST_HUMAN 13721 2251 1.0E-112 RV5103.1 RST_HUMAN	oes expressed in near	Top Hit Descriptor	ae58902.s1 NCL CGAP_GCB1 Homo sepiens cDNA done IMAGE:825170 3' similar to gb:L09235 VACUOLAR ATP SYNTHASE CATAI YTIC SI IRI INIT A TIRIOLITICI IS ZULIMANI.	231f01.r1 Scares pregnant uterus NbHPU Homo seniens china chora in a chora in	Human thrombopoletin receptor (MPL) gene, exons 1.2.3.4.5 and 6	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1) mRNA	72C9 Human retina cDNA Tsp509I-cleaved sublibrary Homo saniens cDNA not directional	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo saplans low density [poprotein-related protein 2 (IRP2) mRNA	Homo saplens acetyl-Coenzyme A carboxylase beta (ACACB) mRNA	Human steroidogenic acute regulatory protein (StAR) gene exon 5	Human steroldogenic acute regulatory protein (StAR) gene, exon 5	UI-H-BI4-aut-g-04-0-U.s.1 NC CGAP Subs Homo saniens con clone IMA CE-2086022 21	Ul-H-Bit-act-g-04-0-Ul.s1 NCI CGAP SubB Home saniers cDNA clams INAGE 3086023 3	Homo saplens HTRA serine protease (PRSS11) gang complete city	ZINC FINGER PROTEIN 135	Homo sapiens KIAA0440 protein (KIAA0440), mRNA	Homo sepiens KIAA0440 protein (KIAA0440) mRNA	801442874F1 NIH MGC 65 Homo saniens cDNA clone IMA CE: 3848888 F	MR2-BT0590-090300-113-f09 BT0590 Homo seniens cDNA	Homo sapiens mRNA for KIAA1411 protein, partial cds	Homo sapiens mRNA for KIAA1411 protein, partial cols	Homo sepiens low density lipoprotein receptor related protein-deleted in timor (I RPDIT)	19/35d07.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE-273/29 57	Homo sapiens solute carrier family 6 (neurotransmitter transminer	Homo sapiens solute carrier family 8 (neurotranemitter transporter)	AU118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 F	601443151F1 NIH MGC 65 Home saniens cDNA clone IMAGE:3847296 E	601443151F1 NIH MGC 65 Home sapiens cDNA clone IMAGE-3847385 5	730g07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA ckme IMAGE:3523020 3' similar to	MR3-SND009-10040-106-k12 SND000 Home Colline Colline	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acess SEQ ID NO: Signal Most Similar Nalue No. 17690 27935 1.51 1.0E-111 AA504160.1 17743 27986 6.35 1.0E-111 AA31248.1 18277 28529 4.52 1.0E-111 AA31248.1 19422 25170 1.39 1.0E-111 AA31248.1 19422 25172 1.39 1.0E-111 A504160.1 19422 25172 1.39 1.0E-111 A504160.1 10528 20335 2.66 1.0E-112 U29103.1 10530 20337 4.49 1.0E-112 U29103.1 10552 20364 1.0E-112 BF500039.1 10553 20365 1.0E-112 BF500039.1 10564 20365 1.0E-112 BF500039.1 10563 20344 1.0E-112 BF500039.1 10564 20364 1.0E-112 BF500039.1 11560 21425 5.88 1.0E-112 <t< td=""><td>gie Exon Pro</td><td>Top Hit Database Source</td><td>EST HUMAN</td><td>EST HUMAN</td><td>N I</td><td>NT</td><td>EST HUMAN</td><td>1</td><td>F</td><td>Į.</td><td>E</td><td>Ę</td><td>EST HUMAN</td><td>EST HUMAN</td><td>IN</td><td>SWISSPROT</td><td>Ę</td><td>Ę</td><td>EST HUMAN</td><td>EST HUMAN</td><td>Z</td><td>Z</td><td>F</td><td>EST_HUMAN</td><td>L</td><td>L</td><td>l-</td><td>EST HUMAN</td><td>EST HUMAN</td><td></td><td>EST HIMAN</td><td>NT</td></t<>	gie Exon Pro	Top Hit Database Source	EST HUMAN	EST HUMAN	N I	NT	EST HUMAN	1	F	Į.	E	Ę	EST HUMAN	EST HUMAN	IN	SWISSPROT	Ę	Ę	EST HUMAN	EST HUMAN	Z	Z	F	EST_HUMAN	L	L	l-	EST HUMAN	EST HUMAN		EST HIMAN	NT
Exant SEQ ID ONF SEQ Expression of the sequence of the	IIO III	Top Hit Acession No.	AA504160.1	AA131248.1	U68159.1	11417901	W22562.1	11430460	11430460	4501854	U29103.1	U29103.1	39.1		l	P52742	7662125	7662125	3E866859.1	3E076073.1	32.1	32.1		1	11416777	11416777				,	T	П
Exon SEQ ID NO: Signa NO: NO: Signa NO: NO: Signa NO: NO: NO: NO: NO: NO: NO: NO: NO: NO:		Most Similar (Top) Hit BLAST E Value	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-111	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112	1.0E-112 E	1 OF 412	1.0E-112/	1.0E-112
Exon SEQ ID NO: NO: 17690 17743 1825 19422 19422 19422 19422 19422 19422 19528		Expression Signal	1.51	6.35	4.52	3.04	1.69	1.39	1.39	2.66	4.49	4.49	1.48	1.48	2.78	1.72	5.88	5.88	2.45	0.83	5.12	5.12	0.94	33.34	1.81	1.81	1.65	2.25	2.25	00.0	4.25	2.86
		ORF SEQ ID NO:		27986	28529							20338	20363	20364	20753	20805	21424	21425	22231	23510	24321	24322	24804	25463	26364	26365	26834	27247	27248	27767	28299	28445
Probe SEQ ID NO: NO: 8401 9938 9959 9959 9959 9959 9959 9959 9959		Exan SEQ ID NO:			18277		19489						10552	10552	10908	10964	11560	11560	12337	13721	14533	14533	15036	15397	16203	16203	16645	17058	17058	17543	18047	18195
		Probe SEQ ID NO:	7840	7893	8401	9038	9686	9959	8959	592	594	594	616	616	985	1046	1658	1658	2460	3809	4646	4646	5170	5477	6340	6340	99/9	7181	7181	7693	8159	8318

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Table 4
Single Exon Probes Expressed in Heart

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Top Hit Descriptor	601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES;	qk24c08.y5 NC_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES:	PMO-CT0237-141099-001-h02 CT0237 Homo seniens cDNA	ao95f01.x1 Schiller meningioma Homo saplens cDNA done IMAGE-1953553	a095f01.x1 Schiller meningioma Homo sapiens cDNA done IMAGE-1053575.31	Human X-linked phosphoglycerate kinase gene exon 8	ao95f01.x1 Schiller meningloma Homo sapiens cDNA clone IMAGE-4953625 31	ULH-BW1-anl-f-03-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 2	Homo sapiens PLP deine	Homo saplens mRNA for putative RNA helitasee 3' and	Homo sapiens wets avian enthrohlasthets virus E26 propaga velated (EDC)	Homo sabiens vets evian enthrohlastosis virus E28 concessoral (EDC), EDNA	1601469465F1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3872588 5	AU127214 NT2RP2 Home sabiens cDNA clone NT2RP2000R7 K	AU140291 PLACE2 Homo sepiens cDNA clone PLACE2000274 5	Homo sapiens UDP-N-acetyl-apha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GalNAc-TR) (GAINTR)	601297709F1 NIH MGC 19 Homo seniens CONA clane MACE 3627264 El	601297709F1 NIH MGC 19 Homo saniens cDNA cline IMAGE: 362784 F	Homo sapiens transmembrane protein 2 (TMEM2) mRNA	UI-HF-BNO-aki-b-12-0-UI.r1 NIH MGC 50 Homo seniens CDNA clone IMAGE 3077235 FT	Homo sapiens glutamate receptor, ignorpoing N-methy D-sprantate 24 (GRIN)2A m-DNA	Homo sapiens glutamate receptor, ignorpoole, N-methy D, senartete 24 (CRINI2A) - DNA	601105529F1 NIH MGC 15 Homo sapiens aDNA clane IMAGE 708R96R F	yd15c01.s1 Soares fetal liver spleen 1NFLS Homo sanjens cDNA clone IMACE-400000 or	gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HIMMAN) contains Althrogogue 11: 100,200 3 SIMILIAN CONTAINS AND C	Homo sapiens hypothetical protein FLJ20080 (FLJ20080) mRNA	Homo saplens rhabdold fumor deletion region protein 1 (RTDR1) mRNA	Homo sapiens nucleoportn-like protein 1 (NLP 1), mRNA	Homo sapiens mRNA for KIAA1276 protein, partial cds
Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	F	EST HUMAN	EST_HUMAN	¥	Ŋ	Į.	N I	EST HUMAN	EST HUMAN	EST_HUMAN	Þ	EST HUMAN	Г		EST HUMAN		F	T HUMAN		EST_HUMAN				Z.
Top Hit Acesslon No.	BE280479.1	1.0E-112 AI792603.1	AI792603.1	1.0E-112 AW377670.1	Al365586.1	1.0E-113 Al365586.1	M11965.1	Al365586.1	BF515218.1	AJ006976.1	1.0E-113 AJ223948.1	7657065 NT	7657065 NT	1.0E-113 BE780858.1	AU127214.1	AU140291.1	11525737 NT	1.0E-113 BE382842.1	1.0E-113 BE382842.1	11429367 NT	AW500519.1	6006002 NT	6006002 NT	1.0E-113 BE292968.1		T70551.1	8923087 NT	7657529 NT	6679073 NT	1.0E-114 AB033102.1
Most Similar (Top) Hit BLAST E Value	1.0E-112 BE2804	1.0E-112	1.0E-112 AI79260	1.0E-112	1.0E-113	1.0E-113	1.0E-113 M11965.	1.0E-113 AI36558	1.0E-113 BF5152	1.0E-113 AJ00697	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113 AU1272	1.0E-113 AU14029	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113	1.0E-113		1.0E-114	1.0E-114	1.0E-114	1.0E-114	1.0E-114
Expression Signal	1.72	1.75	1.75	D.	3.71	3.71	6.32	2.94	1.18	96.0	2.34	0.95	0.95	16.27	6.33	3.92	2.05	2.95	2.95	1,29	1.73	2.07	2.07	3.44		7.66	1.31	3.47	5.63	0.82
ORF SEQ ID NO:	28578	28637	28638	28657	20487	20488	20700	21286	.21833	22179	22813	24677	24678		25144	25605	25710	27326	27327	27731	28604	25832	25833	28721		20379	20815	21053	21413	19823
Exan SEQ ID NO:	18319	18373	18373	18393	10657	10657	10852	11428	11939	12282	13018	14907	14907	19524	15297	15523	15608	17134	17134	17506	18339	15719	15719	18452		10566	10972	11198	11552	10025
Probe SEQ ID NO:	8445	8500	8500	8521	725	725	927	1523	2048	2405	3091	5035	5035	5211	5377	2608	5699	7257	7257	7656	8466	8550	8550	8584		629	1055	1291	1648	2773

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Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sapiens mBNA for KIAA1276 protein perfisionals	Human gene for catalase (EC 1.11.18) exon 2 manning to observe 44. Lead and	601869932F1 NIH MGC 19 Homo saniens child close MA CE: 410024 E	Homo sapiens NOD1 protein (NOD1) gene exps 1.2 and 3	zq05e05.r1 Stratagene muscle 937209 Homo saplens cDNA clone IMAGE:628832 5' similar to contains	Homo sapiens PKY protein kinase mRNA complete refe	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain	Homo saplens sema domain, severathroning by Carwada Minana Homo saplens sema domain, severathron thron the control of the cont	Homo saniens NF2 dene	Homo sapiens NE2 dene	Homo sanians damma-aminokuthric ovid (CABA) A	av68d06 x1 NCI CGAP Rm25 Home conions CDNA Alexandra alpha 2 (GABRAZ) mRNA	GV68406 x1 NCI CGAP Rm25 Hams sealers CONA clone INVACE 201	Human neural cell adhesion molecula CD56 mDNA completed.	Homo sapiens mRNA for KIAA6561 profein partial cale	Homo sabiens mRNA for KIAAn561 hontein perfect one	dq03f05.x1 NIH MGC 2 Homo sapiens cDNA clone MAA CE 3948744 El	Homo sapiens tyrosine kinase pn600-src (SRC) cane accept 44.3	Homo sapiens chromosome 21 segment HS21Cn27	ba73g12.y1·NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to ab:X17206 4nS	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element,	AV733454 CIA Homo canione JDNA June Lake And Fi	AV733454 add Hims cenians aDMA standard and a stand	AV733454 cdA Homo seniens cDNA close and BAOS 5	AV733454 cda Homo saniens citiva como ada base es	Homo sapiens TNE Indirichle profess OC43 4 (OC43 4)	Homo sapiens hypothetical protein (O 100/2/10 2) Data	Homo sapiens hypothetical protein (D 1042x44 2)	Homo sapiens HLA-B associated franscrint / (Decede) monty	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA
Top Hit Database Source	N I		EST HUMAN		EST HIMAN	Т						T HUMAN	HUMAN	Т			Г	IN	Т-		FST HIMAN	7	Т	HUMAN	HUMAN					
Top Hit Acession No.	02.1		14.1	3.1	1.0E-114 AA194468.1	T	4506880 NT	4506880 NT			4557600	1.0E-114 Al363139.1							7.2		1.0E-114 BE302666.1		T	5	7	1418041	11034850 NT	11034850 NT	4758111 NT	4505938 NT
Most Similar (Top) Hit BLAST E Value	1.0E-114 AB0331	1.0E-114 X04086.	1.0E-114 BF20637	1.0E-114 AF14977	1.0E-114	1.0E-114 AF00484	1.0E-114	1.0E-114	1.0E-114 Y18000.	1.0E-114 Y18000.1	1.0E-114	1.0E-114	1.0E-114 Al363139.1	1.0E-114 U63041.	1.0E-114 A	1.0E-114	1.0E-114	1.0E-114	1.0E-114 AL16322		1.0E-114 B	1.0E-114 A	1.0E-114 AV73345	1.0E-114 A	1.0E-114 AV73345	1.0E-114	1.0E-114	1.0E-114	1.0E-115	1.0E-115
Expression Signal	0.82	2.29	1.2	1.95	12	2.31	1.37	1.37	7.08	7.08	1.86	1.73	1.73	3.39	6.35	6.35	3.79	3.13	1.31		7.14	4.58	4.58	2.86	2.86	3.21	3.06	3.06	3.36	0.95
ORF SEQ ID NO:			22859	23621	24762	24763	25040	25041	26338	26339	26673	26814	26815	27116	27161	27162		26652	27940			28666	28667	28932	28933		25222	25223	19801	19920
Exan SEQ ID NO:				13843	14988	14989	15237	15237	16179	16179	16486	16627	16627	16925	16967	16967	17285	16459	17694		18055	18399	18399	18647	18647	19748	19266	19266	10008	10099
Probe SEQ ID NO:	2773	3092	3135	3934	5120	5121	5316	5316	6316	6316	9099	6748	6748	7048	2000	200	7418	7447	7844		8167	8527	8527	8834	8834	9479	9729	9729	73	125

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Single Exon Probes Expressed in Heart

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Oligia Exoli riobes Expressed III negat	Top Hit Descriptor	Homo sapiens keratin 18 (KRT18) mRNA	QV4-UM0094-300300-156-b08 UM0094 Homo saniens cDNA	qt06f01.xf NCI_CGAP_GC4.Homo saplens cDNA clone IMAGE:1946809 3' similar to TR:000538 000536 TTF-! INTERACTING PEPTIDE 5:	qt06f01.x1 NCI_CGAP_GC4 Homo saplens cDNA clone IMAGE:1946809 3' similar to TR:O00536 O00536	Homo sapiens transforming growth factor bets activated kinases hinding sector 4 (TABA)	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (1 AB 1), mixture	Homo saplens ferritin, heavy polypeptide 1 (FTH1) mRNA	Homo saplens alpha-aminoadipate semialdehyda synthasa mRNA complete cele	Homo sapiens albha-aminoadhate samialdehyde synthese mRNA complete cus	Homo saplens partial TTN gene for titin	Homo sapiens Brutan's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes complete at	601579838F1 NIH MGC 9 Homo seniens chivé ciera IMA CE sonsons si	601579838F1 NIH MGC 9 Homo capiens CDNA clone IMAGE Spasses El	OV4-UM0094-300300-158-b08 (IM0004 Home gariens 2014	Homo sapiens mRNA for alpha-hhulin 8 (TI IRA8 gene)	Homo saplens mRNA for alpha-tributin 8 (TI IRA® gene)	Homo sapiens partial TTN cene for titin	Homo sapiens mRNA for KIAA0350 protein partial cds	Novel human gene mapping to chomosome X	Homo sapiens sir2-like 3 (SIRT3), mRNA	Homo sapiens EphA4 (EPHA4) mRNA	Novel human mRNA from chromosome 1, which has similarities to BAT2 names	Novel human mRNA from chromosome 1, which has similarities to BAT2 nenes	Homo sapiens chromosome 21 segment HS21C068	Homo saplens chromosome 21 segment HS21C088	EST382416 MAGE resequences. MAGK Homo sanions CONA	602119346F1 NIH MGC 56 Homo sabiens cDNA clone IMA/RE-4076728 F	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (1 OCR3433) mRNA	Homo sapiens similar to ER to nucleus signalling 1 (H. saniens) (1 OCS3433) - BNA	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOCR3436) mRNA	Homo saplens KIAA0054 gene product, Helicase (KIAA0054), mRNA
פום בייטוו ו יים	Top Hit Database Source	F	EST_HUMAN	EST HUMAN	EST HUMAN	NT.	L	LN	LNT	NT	LZ	Į.	EST HUMAN	EST HUMAN	EST HUMAN	LN FA	TN	TN	LN	NT	ΤN	NT	TN	TN	Į.	NT	EST_HUMAN	EST HUMAN	לד	F	L	5
5	Top Hit Acession No.	4557887 NT	1 2	AI339206.1	A1339206.1	5174702 NT	5174702 NT	4503794 NT	1.0E-115 AF229180.1	1.0E-115 AF229180.1	1.0E-115 AJ277892.1		39.1			2.1		1.0E-115 AJ277892.1		1.0E-115 AL137163.1	6912659 NT	4758279 NT				1.0E-115 AL163268.2			11425128 NT	11425128 NT	11426038 NT	7861883 NT
	Most Similar (Top) Hit BLAST E Value	1.0E-115	1.0E-115 AW804	1.0E-115 AI33920	1.0E-115 Al33920	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115 U78027.	1.0E-115	1.0E-115	1.0E-115 AW8047	1.0E-115 AJ24592	1.0E-115	1.0E-115 /	1.0E-115	1.0E-115	1.0E-115	1.0E-115	1.0E-115 A	1.0E-115 A	1.0E-115	1.0E-115	1.0E-115 AW9703	1.0E-115 BF665387	1.0E-115	1.0E-115	1.0E-115	1.0E-115
	Expression Signal	1.99	2.17	1.08	1.08	1.83	1.83	49.82	0.92	0.92	3.14	1.42	0.87	0.87	1.78	2.1	2.1	4.03	4.04	1.09	3.41	3.83	2.58	2.58	2.96	2.96	1.75	7.22	2.05	2.05	12.92	1.93
	ORF SEQ ID NO:		20073	20278	20279	20537	20538	20540	21301	21302	21561	21573	21817	21818		22795	22796	23149	23640	23844	23983	24014	24254	24255	24482	24483	24977	25055	25369	25370	25876	25960
	Exan SEQ ID NO:	10103	10253	10467	10467	10699	10699	10701	11443	11443	11683	11696	11925	11925	12749	13004	13004	13344	13864	14069	14199	14232	14468	- 4 8 8	14696	14696	15201	15250	15321	15321	15758	15838
	Probe SEQ ID NO:	129	289	525	625	769	769	171	1539	1839	1785	1798	2034	2034	2820	3077	3077	3427	3956	4169	430	4335	4578	4578	4813	4813	5279	5330	5402	5402	5852	5933

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Table 4
Single Exon Probes Expressed in

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| Top Hit Descriptor | Homo saplens KIAA0054 gene product: Helicasa (KIAA0054)BNA | 1023/806.x1 Soares total fetus NhOHER Ow Home continue of the | oz31a06.x1 Soares total fatus Nb3HF8 Ow Home seniors cDNA close twa certains and certains and certains when seniors contains the certains and certai | Homo sapiens mRNA for KIAAnggs protein partiel and | RC6-ET0081-130700-011-G01 ET0081 Home seniens cDNA | RC6-ET0081-130700-011-G01 FT0081 Home capients child | Homo sapiens eukaryotic translation initiation factor 4R (FIF4R) mRNA | Human mRNA for KIA40338 gene partial cde
 | Human mRNA for KIAA0338 gane, partial cds | x3206.x1 NCI_CGAP_Utt Homo sepiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA P10463 CAL CYPHOSINE: | Home sanjans calcium chang located at a training and a sanjans calcium change.

 | 60121347F1 NIH MGC 27 Home services and Alexanders (ACANATE) mRNA | Homo sabiens synaptojanin 1 (SYN.14) mRNA | Homo sapiens synaptrianin 1 (SYN IA) mRNA | Homo sablens pericentrin (PCNT) mBNA | Homo sapiens pericentrin (PCNT) mRNA
 | AU133080 NT2RP4 Home sentens c DNA close NT2BBA6A4336 E | Human apolipoprotein B-100 (anoB) dense avans 17 and 18 | Human apolipoprotein B-100 (apo8) gene expres 17 and 18

 | Homo saplens protein phosphatase, EF hand calcium-binding domain 1 (PDEE1) | Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and | Homo saplens mRNA for KIA 40700 medela matical additional and the complete control of the
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2 to 5 | 2224d07.r1 Soares_senescent_fibroblasts_NbHSF Homo sepiens cDNA clone IMAGE:323245 5' similar to | Homo sapiens mRNA for KIAA1636 protein, partial cds. | |
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 | AB002336.1 | AW571544.1 |

 | BE275502.1 | 4507334 | 4507334 | 5174478 | 5174478
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 | 27817 | 28239 | 28801

 | 20306 | 20552 | | 21733 | 21734
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NO: | 5933 | 6313 | 6313 | 6379 | 6744 | 6744 | 7116 | 7745
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Page 344 of 413 Table 4 Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sapiens mRNA for KIAA1636 protein, partial cds	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA	C02944 Human heart cDNA (YNakamura) Homo saplens cDNA clone 3NHC0567	AV716314 DCB Hamo sapiens cDNA clane DCBBCG06 5
 | DKFZp762L1110_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762L1110 5' | Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA

 | Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15 | Homo sapiens lymphocyte activation-associated protein mRNA, complete cds | Human apolipoprotein B-100 (apoB) gene, exon 10 | EST369769 MAGE resequences, MAGE Homo sapiens cDNA
 | op32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3' | EST188414 HCC cell line (matastasts to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal | | nuno septens conegen, type IV, apria o (Alport syndrome) (COL4Ab), mANA | DKFZp434C1120_71 434 (synonym: fites3) Homo sapiens cDNA clone DKFZp434C1120 5 | H.sapiens mRNA for TPCR16 protein
 | H.sapiens mRNA for TPCR16 protein | Homo sapiens Scar2 (SCAR2) gene, partial cds | Homo sapiens Scar2 (SCAR2) gene, partial cds | Homo sapiens mRNA for KIAA0866 protein, complete cds | 601562657F1 NIH_MGC_20 Hamo sapiens cDNA clone IMAGE:3832214 5 | Hamo sapiens nuclear harmone receptor (shp) gene, 3' end of cds | Hamo sapiens nuclear harmone receptor (shp) gene, 3' end of cds |
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| Top Hit Acession
No. | AB046856.1 | 3F677910.1 | 3E158133.1 | 202944.1 | 4V716314.1 | | | | 41216352.1 | 11418646 | 3F335849.1 | A1367140 1 | 3E258569.1
 | AL134889.1 | 4826636

 | 4F124393.1 | 4F123320.1 | M19816.1 | 4W957699.1
 | A978114.1 | , 2020, 3, | 4A310723.1 | 8008004 | 4L042120.1 | X89670.1
 | X89670.1 | AF134304.2 | 4F134304.2 | AB020673.1 | 3E730508.1 | .76571.1 | 76571.1 |
| | 1.0E-116 | 1.0E-116 | 1.0E-118 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116 | 1.0E-116
 | 1.0E-116 | 1.0E-117

 | 1.0E-117 | 1.0E-117 | 1.0E-117 | 1.0E-117
 | 1.0E-117 | | 1.05-11// | 1.05-117 | 1.0E-117 | 1.0E-117
 | 1.0E-117 | 1.0E-117 | 1.0E-117 | 1.0E-117 | 1.0E-117 | 1.0E-117 | 1.0E-117 L76571.1 |
| Expression
Signal | 1.65 | 7279 | 1.8 | 3.59 | 7.97 | 1.99 | 1.99 | 1.43 | 1.98 | 1.77 | 3.68 | 3.23 | 2.08
 | 2.68 | 1.18

 | 1.59 | 6.25 | 2.3 | 2.99
 | 1.75 | | 3.02 | 1.00 | 1.88 | 1.35
 | 1.35 | 9.22 | 9.22 | 3.36 | 2.5 | 4.99 | 4.99 |
| ORF SEQ
ID NO: | 25782 | 25877 | | 26156 | 26295 | | | 27239 | 27330 | | 28216 | |
 | | 20296

 | | 21489 | | | | | |
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 | | | | 24516 | | | 26427 |
| Exon
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NO: | 15675 | 15759 | 15829 | 16018 | 16139 | 16753 | 16753 | 17050 | 17137 | 17428 | 17965 | 18350 | 19741
 | 19614 | 10487

 | 12684 | 11620 | 11688 | 12051
 | 13154 | 9,00 | 13810 | 414 | 14369 | 14510
 | 14510 | 14591 | 14591 | 14736 | 15202 | 16265 | 16265 |
| Probe
SEQ ID
NO: | 2168 | 5853 | 5924 | 6145 | 6275 | 6874 | 6874 | 7173 | 7260 | 7577 | 8074 | 8477 | 9591
 | 9776 | 546

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 | 4622 | 4705 | 4705 | 4856 | 5280 | 6404 | 8404 |
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Table 4
Single Exon Probes Expressed

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| Top Hit Descriptor | AV717788 DOB Home caniene ANIA attachment and an | AV717788 DCB Homo saplens cDNA rights DCBB AE01 5 | wp86b07.x1 NCI_CGAP_Braz5 Home sapiens cDNA done IMAGE:2468629 3' similar to TR:O75065 | Homo sanjens neural cell artheritar malacula 4 /ki 04.444 | Homo saniens neural cell adheden melecule 1 (NCAM1), mRNA | Human dene for very low deneity linearstein mannet. | 601589317F1 NIH MGC 21 Homo saniens cDNA close 1146 E-2842240 E- | 2d83b11.r1 Soares_fetal_heart_NbHH199W Homo sepiens cDNA done IMAGE:347229 5 similar to | Homo sapiens mRNA for MFGF8 northology | Homo sanjane mRNA for MEGEQ and act | 601486203E1 NIH MCC 8 Dome | Homo sanians ATP hindre consults culve clone IMAGE:3544296 5 | Homo saplens ATP hinding casselle, sub-ramily A (ABC1), member 3 (ABCA3), mRNA | Home centers Att -usualing casselle, sub-tamily A (ABC1), member 3 (ABCA3), mRNA
 | DKF7nd3dln58 rt 434 (cmmm Lt - 2) 1 | Homo saniens hundheited seeing to locate to Control of the Control | Homo sapiens sine carilla home (1) (1) (1) (1) | 601281947E1 NIH MCC 41 U. | 601281947F1 NIH MGC 44 Homo capiens culva cigne IMAGE:3604019 5 | 601281947F1 NIH MGC 44 Home services contact to 114 OF 2020
 | EST363799 MAGE resequences. MAGB Homo senions child | Human breakpoint cluster region (BCR) gene commisses ede | Human breakpoint cluster region (BCR) gene, complete cds | Homo saplens PRKY expn 7

 | qp01f05x1 NCI_CGAP_Kld5 Homo sapiens cDNA clone IMAGE1194 8280 21 | ap01f05,x1 NCI CGAP Kid5 Homo saniens cPNA closs INACE (1919/09.3 | Human mRNA for ribosomal protein, complete cits | Homo sapiens calcium channel demme 4 enhants (CACNOA) | Homo sapiens calcium channel namma / cubiniti (CAONG4) gene, exch 3 | Homo sepiens fransient recentor notantial abount (ACNO4) gene, exon 3
 | Homo saplens latent transforming growth factor has kindling and the saplens latent transforming growth factor has kindling and the saplens latent transforming growth factor has kindling and the saplens latent transforming growth factor has kindling and the saplens are saplens and the saplens are saplens and the saplens are saplens and the saplens are saplens and the saplens are saplens and the saplens are saplens and the saplens are saplens and the saplens are saplens are saplens are saplens are saplens and the saplens are saple | Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA |
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 | 1.0E-118 | 1.0E-118 |
| Expression
Signal | 3.77 | 3.77 | 5.93 | 1.7 | 1.7 | 2.28 | 1.51 | 10.31 | 3.96 | 3.96 | 15.63 | 222 | 222 | 9.54
 | 2.59 | 5.09 | 96:0 | 2.39 | 2.39 | 2.39
 | 3.77 | 2.38 | 2.38 | 3.73

 | 4.51 | 4.51 | 7.67 | 2.02 | 2.02 | 1.88
 | 1.87 | 1.87 |
| ORF SEQ
ID NO: | | | 26725 | 26908 | 26909 | 27428 | 27708 | 28512 | 28732 | 28733 | | 28974 | 28975 | 19863
 | 19890 | 20261 | . 20667 | 21975 | 21976 | 21977
 | | 22465 | 22466 | 1

 | 22887 | 22888 | 23679 | 25053 | 25054 | 25620
 | 26054 | 26055 |
| Exon
SEQ ID
NO: | 16316 | 16316 | 16531 | | | | | 18262 | 18462 | 18462 | 18516 | 18684 | 18684 | 10050
 | 10074 | 10448 | 12680 | 12073 | 12073 | 12073
 | 12165 | 12574 | 125/4 | 12993

 | 13084 | 13084 | 13904 | 15249 | 15249 | 15535
 | 15924 | 15924 |
| Probe
SEQ ID
NO: | 6455 | 6455 | 6651 | 6837 | 6837 | 7361 | 7635 | 8385 | 8595 | 8595 | 8698 | 8872 | 8872 | 64
 | 8 | 506 | 896 | 2186 | 2186 | 2186
 | 2284 | 2711 | 11/2 | 9000

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 | 6020 | 6020 |
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Single Exon Probes Expressed in

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sabiens chromosome 2 onen reading frama 3 (C3OBEs) DNA	601469159F1 NIH MGC 67 Homo sanians chila class NA CE 202227 H	QV0-BT0263-090200-097-hn3 BT0263 Hnms combans colons	QV0-BT0263-090200-097-h03 BT0263 Homo senions cDNA	2298407.r1 Soares NHHMPu S1 Homo sabiens CONA close MAADE:9447292 #1	288407.11 Soares NhHMPu S1 Homo saplens CONA clone MAGE:41729.5	Human mRNA for KIAA0383 dene, partial cds	Human mRNA for KIAA0383 gene partial cds	Homo saplens latent fransforming growth factor here binding and in 27 months.	Homo sapiens latent transforming growth factor beta kinding protein 2 (T.) BF2/ MKNA	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3460502 F	7n17e09x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN & DEFICI 155.00	EST166814 HCC cell line (matastasis to liver in mouse) Il Homo sapiens cDNA 5' end similar to dynein, light	OVA-IMADOR-120000 28E E42 IMAGG 1	OVO-UMORO1-120000-385-bt-3 UMORO3 U	Homo sabiens chloride channel CI CA (CICA) TONA	Homo sepiens CGL-105 protein (1 OCE4044) monty	Homo sapiens mRNA for KIA 40090 protein particles	Homo sapiens hypothetical profein FI. Monso (FI. 140052)	on10b05.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F6.2	John sanione distance constructions	7814F03 Chromosome 7 Fetal Brain - ONA (Brain Liberton)	AU133399 NT2RP4 Homo saniens CDNA clara NT2BD400000 5:	Human neurofibromin (NF1) gene commiste colo	RC1-NN0073-250800-018-008 NN0073 Home conjune conjune	AV693731 GKC Homo sapiens cDNA clone GKCDHRn3 5'	4b77c09xf Scares_fetal_heart_NbHH16W Homo sapiens cDNA clone IMAGE:1708128 3' similar to SW:K1CJ MOUSE P02535 KFRATIN_TYPE I CYTOSKEI FTALAGO.	Human c-fes/fins broth-concordene	EST386296 MAGE reseminance MACM Home	601592005E1 NIH MGC 7 Long - FNI H
jie Exon Prot	Top Hit Database Source	NT	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	NT	Ę	F	EST_HUMAN	EST_HUMAN		EST HIMAN	┱						NCMOLI -	HUMAN	Т		Т	EST_HUMAN	EST HUMAN	Т	T HUMAN	Т
Sing	Top Hit Acession No.	11431050 NT	1.0E-118 BE781223.1				24.1	81.1	31.1	4557732	4557732 NT	1.0E-118 BE263134.1	1.0E-118 BF195407.1	1.0E-118 AA315007 1			Π	5607	7.1	8922205	1 0E-119 AA916760 1	4116	1.0E-119 AA077394.1	19.1			1.0E-119 AV693731.1 E	۲.		33.1	T
	Most Similar (Top) Hit BLAST E Value	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118 AA4430	1.0E-118 AB0023	1.0E-118 AB0023	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-118	1.0E-119	1.0E-119	1.0E-119 AB02314	1.0E-119	1 0F-149	1.0E-119	1.0E-119 /	1.0E-119 A	1.0E-119 M89914.	1.0E-119 E	1.0E-119	1.0E-119 AI150703	1.0E-119 X06292.1	1.0E-119 A	1.0E-119 BE79661
	Expression Signal	4.13	2.23	7.81	7.81	1.34	1.34	1.16	1.16	1.28	1.28	5.71	1.18	3.06	1.75	1.75	0.81	1.55	2.09	1.81	1 08	1.15	0.95	2.45	14.93	3.32	2.24	7.19	2.79	4.26	1.42
	ORF SEQ ID NO:	26509	26722	26960	26961	26963	26964	27100	27101	27129	27130	27288	28027	28737	28947	28948	20508	20781	21663	22783		23573	24753	24969	24980	24984	25079	25736	25914	25925	26403
	Exon SEQ ID NO:	16341	16528	16763	16763	16767	16767	16912	16912	16939	16939	17100	17786	18465	18659	18659	10672	12683	11786	12991	13126	13781	14979	15194	15204	15207	15256	15633	15793	15801	16243
	Probe SEQ ID NO:	6482	6648	6884	6884	6888	6888	7035	7035	7062	7062	7223	7936	8598	8847	8847	741	1021	1891	3064	3202	3870	5111	5272	5282	5285	5336	5728	5887	5895	6381

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	as3205 rd NOL CGAP GOB4 Home and the second	Homo seniens partiel II -10RB amperer 1 42 2000 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2	1602186072F1 NIH MGC 45 Home canions Child Alam INA GE 177	RG3-CT0212-240909-011-fin3 CT0212 Home continued to 110 March 12 CT0212-240909-011-fin3 CT0212 Home continued to 110 March 12 Home continued to 110 March 12 Home continued to 110 March 12 Home continued to 110 March 12 Home continued to 110 March 12 March	Homo sapiens mRNA for KIAA0758 protein partial cde	Homo saplens synapticianin 1 (SYN.11) mRNA	Homo sapiens intersectin 2 (SH3D1B) mRNA. complete cds	Homo sapiens intersectin 2 (SH3D1R) mRNA complete cds	1940g12.r1 Soares melanocyte 2NbHM Homo sanions cDNA closs MAACE:2727777	Homo sapiens cysteine-rich repeat-containing profein S52 processes. DNA	Homo sapiens gene for AF-6, complete cds.	Homo sapiens gene for AE-5 complete ad	Homo sapiens agrianorin 4 (A DPA) entires incident h Bhis	Homo sepiens symmetrianin (198N II) mbM.	Homo sablens cAMP-snerific phosphodiatheres 84 (205.54)	Home saniane californic enaction phosphodicates on (FDEGA) mKNA, partial cds	Homo sablens stannionalcin (STC) was a set of STC and a s	Homo sablens stannicosloin (STC) gene, partial Ac	dd61f03.x1 Spares festis NHT Home sanions CINA Class IN A CIT 20000	602183994F1 NIH MGC 42 Homo saplans CONA class IMA CE 1000121 F1	602183994F1 NIH MGC 42 Homo sapiens CONA close MACE: 4300114 5	Human TBXAS1 gene for thromboxane swithase exp. 7	Human gene for neurofilament subunit M (NF-M)	Human gene for neurofilament subunit M (NE-M)	602035352F1 NCL CGAP Brn64 Homo satiens cDNA clana IMACE 4182222 F	Homo sapiens mRNA, chromosome 1 specific transcript KIAAAAA	Homo sapiens mRNA, chromosome 1 specific transcript KIA A 0.406	Homo sapiens mRNA for KIA60465 protein nartiel cas	601307739F1 NIH MGC 44 Homo sapiens CNNA clara MACE 2825E44 FI	601307739F1 NIH MGC 44 Home services chiva clicus invace 35	601888956F1 NIH MGC 17 Homo sanlans CONA Alana 144 CE 3425344 5	AU133205 NT2RP4 Home septiens cDNA close NT20D2004644 E	Homo saplens mRNA for KIAA1077 protein partial rds	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'
Jie Exon Pro	Top Hit Database Source	EST HIMAN	LN	EST HUMAN	EST HUMAN	Z L	R	N.	N L	EST HUMAN	N L	NT	NT.	N-1		L	LX	N-L	NT	EST HUMAN	EST HUMAN	EST HUMAN	TN	F	NT	EST_HUMAN	N	NT	N.	EST HUMAN	EST HUMAN	Т	Т	N	EST_HUMAN
Suic	Top Hit Acession No.	AA465124.1	01.1	571.1		Γ	7334	1.0E-120 AF248540.1			1.0E-120 AF167706.1			5124	4507334 NT	1.0E-120 AF056490.1	90.1	Γ	1.0E-120 AF098463.1		22.1	2.1	-	-											П
	Most Similar (Top) Hit BLAST E Value	1.0E-119 AA465	1.0E-119 AJ2977	1.0E-119	1.0E-119 AW847	1.0E-120	1.0E-120	1.0E-120	1.0E-120 /	1.0E-120 N44873.1	1.0E-120	1.0E-120	1.0E-120/	1.0E-120	1.0E-120	1.0E-120 /	1.0E-120 AF0564	1.0E-120 /	1.0E-120 A	1.0E-120 AI190903.1	1.0E-120 BF5682	1.0E-120 BF56822	1.0E-120 D34619.	1.0E-120 Y00067	1.0E-120 Y00067	1.0E-120 BF337599.1	1.0E-120 AB007964.1	1.0E-120 AB007964.1	1.0E-120 AB007934.1	1.0E-120 BE392102.1	1.0E-120 BE392102.1	1.0E-120 BF306541.1	1.0E-120 AU133205.1	1.0E-120 AB029000.1	1.0E-120 BE296387.1
	Expression Signal	1.48	1.42	9.72	1.37	1.4	1.34	1.67	1.67	4.53	3.87	6.0	6.0	0.84	1.13	1.17	1.17	2.79	2.79	0.89	13.84	13.84	1.49	1.67	1.67	2.44	2.43	2.43	1.33	4.54	4.54	4.72	7.31	2.53	6.4
	ORF SEQ ID NO:	27977	28089						20788	21172	21348	21847	21848	22250	20082	23936	23937	24242	24243	24801	25488	25489	26495	26674	26675	26924	26971	26972	26993	27535	27536	27687	27698	27885	28607
	Exon SEQ ID NO:	17733	17848	18407		10205	10262	10943	10943	11311	11487	11950	11950	12358	10262	14159	14159	14455	14455	15034	15426	15426	16328	16488	16488	16729	16777	16777	16800	17330	17330	17468	17477	17848	18342
	Probe SEQ ID NO:	7883	7998	8535	9348	237	298	1025	1025	1406	1583	2000 7000	2060	2482	3267	4260	4260	4563	4563	5168	929	5508	6469	8099	8099	0320	8689	6838	6922	7470	7470	7617	7626	7798	8469

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Table 4
Single Exon Probes Expressed in Heart

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Table 4
Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	DORF SEQ Expression (Top) Hit Top Hit Acession Database ID NO: Signal BLAST E No. Source Value Source	21435	21458 2.01 1.0E-122 11418424 NT	21459 2.01 1.0E-122 11418424 NT	21549 5.91 1.0E-122 BE906024.1 EST HUMAN	22215 10.56 1.0E-122 BF316170.1 EST HUMAN	22216 10.56 1.0E-122 BF316170.1 EST HUMAN	24409 1.82 1.0E-122 4502166 NT	1.2 1.0E-122 AW504645.1 EST HUMAN	· 25390 6.41 1.0E-122 BE256039.1 EST HUMAN	27286 1.35 1.0E-122 11424216 NT	4.35 1.0E-122 11418187 NT	19968 1.07 1.0E-123 U31519.1 NT	20517 1.72 1.0E-123 BF345274.1 EST HUMAN	20518 1.72 1.0E-123 BF345274.1 EST HUMAN	20760 3.79 1.0E-123 AL163249.2 NT	20767 5.06 1.0E-123 5803114 NT	20976 3.35 1.0E-123 4505818 NT	20977 3.35 1.0E-123 - 4506818 NT	21211 1.76 1.0E-123 A.J388641.1 NT	21837 2.98 1.0E-123 M55419.1 NT	21838 2.98 1.0E-123 M55419.1 NT	21839 2.98 1.0E-123 M55419.1 NT	4.5 1.0E-123 7705962 NT	25091 1.75 1.0E-123 L34219.1 NT	25092 1.75 1.0E-123 L34219.1 NT	25400 1.29 1.0E-123 BE799746.1 EST HUMAN	25923 2.27 1.0E-123 AU118435.1 EST HUMAN	26221 1.3 1.0E-123 U42224.1 NT	26545 1.95 1.0E-123 BE263001,1 EST_HUMAN	27517 4.14 1.0E-123 AB007923.1 NT
		21435	21458	21459	21549	22215	22216	24409		. 25390	27286		19968	20517	20518	20760	20767	20976	20977	21211	21837	21838	21839		25091	25092	25400	25923	26221	26545	27517
	Exon SEQ ID NO:		11586	11586	11671		12318	14623	14797	15337		18869				10916	10923	11126	11126	11344	11942	11942		12151				15799			17310
	Probe SEQ ID NO:	1667	1684	1684	1772	2441	2441	4738	4918	6051	7219	9098	181	751	751	966	1005	1218	1218	1439	2022	2022	2052	2267	5344	5344	5425	5893	6186	629	7392

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Top Hit Descriptor	Oraciolarus cuniculus New Zeolond withthe absence of a second sec	602086791F1 NIH MGC 83 Home septeme and A complete cds	602086791F1 NIH MGC 83 Home services CDNA class MACE: 4250879 5	Homo sapiens T-cell hmphoma invasion and metastasis 4 /TIANA4 - ENIA	Homo saniens T-cell Amphoma invasion and metanation of transfer and metanation an	Homo sapiens DNA for emyold precursor protein complete ode	Homo saplens chromosome 21 segment HS210246	281b04.rf Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 POL=REVERSE TRANSCRIPTASE HOMO! OG IBETDOMIDAL EL ENEVERSE	281504.11 Stratagene schizo brein S11 Homo sapiens cDNA cione IMAGE:728719 5' similar to TR:G300482	Human putative ribosomal protein S1 mBNA	Home sapiens Treal humbons investigated to the first treatment of th	Homo sabiens broothetical profein (HebCoss) Tonia	Homo sapiens ring finder protein (RNF) mRNA	Homo explens ducose transnorter 3 can avoice 0.40 and avoice 1.4	Homo sabiens alucose transnorder 3 nene expens 0.10, and complete cas	Homo sapiens mRNA for nucleolar RNA-helicase (no Helicase)	601491715F1 NIH MGC 69 Homo sariens CONA Amo MA CE-280205E1 FI	Homo sapiens gene for B120, expn 11	Homo saplens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene exon	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJG/BIR1) gene exan	H.sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (and loined CDS)	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo saplens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA	Homo sapiens gene for B120, exon 11	Human fibronectin gene extra type III repeat (EDII), exon x+1	qf56h03.x1 Soares_testis_NHT Homo saptens cDNA clone IMAGE:1754069 3'	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA	602/12464441 NIH MGC 56 Homo sepiens cDNA done IMAGE:4281635 5	Homo sapiens ribosomal protein 1.5 (RPI 5) mRNA
Top Hit Datebase Source	 			.4	E	Ę	F	EST_HUMAN	EST HIMAN	-1		5	5	F	F	5	ST HUMAN		5	5	5	<u> </u>	7	1	L	ī	ST HUMAN		HOMAN	
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Most Similar (Top) Hit BLAST E Value	1.0E-123	1.0E-123	1.0E-123	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	1.0E-124	· 1.0E-124	1.0E-124	1.0E-124	1.05-124)	1.0E-124	1.0E-124	1.05-124	1.0E-124.N	1.05-124	1.0E-124	1.0E-124 V	1.0E-124
Expression Signal	12.23	9	9	1.1	1.1	1.98	2.11	2.03	2.03	3.67	1.06	1.81	2.59	5.54	5.54	2.35	2.23	0.85	0.85	0.96	0.96	282	1.09	1.19	80.1	1.12	27.7	18.0 8.43	3,34	5.66
ORF SEQ ID NO:	27537	23057					20238	20429	20430	20509	20561	20660	21056	21086	21087	21550	21797	22182	23045	23169	22300	20000	23028	24945	CICTY	24605	24003	25580	26220	26874
Exon SEQ ID NO:	17331	18765	18765	10233	10233	10239	10421	10609	10609	10673	10720	10812	11200	11231	11231	11672	11907	12285	13240	13363	12542	19797	13000	14537	1724	14044	15164	15505	16070	16684
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1.0E-124 A507500 NT 10239 20049 1.0E-124 B87675.1 EST HUMAN 10230 20049 1.0E-124 A4507500 NT 10421 20238 2.11 1.0E-124 AL163246.2 NT 10609 20430 2.03 1.0E-124 AA397551.1 EST HUMAN 10672 20509 3.67 1.0E-124 AA397551.1 EST HUMAN 10720 20561 1.0E-124 AA397551.1 A507500 NT 11200 20561 1.0E-124 AA397551.1 A507500 NT 11022 1.0E-124 AA397561.1 A507500 NT	Exon ORF SEQ ID NO: Expression Signal (Top) Hit Top Hit Acession Signal (Top) Hit Top Hit Acession Signal (Top) Hit Top Hit Acession Source Nature Top Hit Acession Source 17331 27537 12.23 1.0E-123 BF677292.1 EST HUMAN 10233 20048 1.1 1.0E-124 BF677292.1 EST HUMAN 10233 20048 1.1 1.0E-124 A507500 NT 10239 20049 1.1 1.0E-124 A507500 NT 10239 20049 1.0E-124 BP67759.1 EST HUMAN 10230 20049 1.0E-124 A4507500 NT 10421 20238 2.11 1.0E-124 AL163246.2 NT 10609 20429 2.03 1.0E-124 AA397551.1 EST HUMAN 10672 20509 3.67 1.0E-124 AA397551.1 EST HUMAN 10720 20561 1.0E-124 AA397551.1 EST HUMAN 10720 20560 1.0E-124 AA397551.1 HA1419092 NT 11200 20561 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Page 351 of 413 Table 4 Single Exon Probes Expressed in L

Single Exon Probes Expressed in Heart	Top Hit Descriptor	hg94a09.xf NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240.3' similar to TR:095162 095162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHADD CENASE	hg94a09.x1 NCI_CGAP_Kid11 Homo sapinas cDNA INCIGET BR3240 3' similar to TR:O95162 095162 PFROXISOMAI SHOTT CHAIN AIR SHOTT CH	AV645633 GL C Homo saniens ANA Alma GL CA CEST 3.	AV645633 GLC Homo sapiens cDNA clans GLCACEO4 3	Wi93102 x1 NCI CGAP Kid12 Home centens cDNA January 14 ACT 2000001	W93f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA done IMAGE:2400891 3	ULHF-BN0-ekz-b-04-0-UI:11 NIH MGC 50 Homo saniens ci0N4 riene iMACE-2078946 Fr	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17	hj05c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2980906.3'	t19e03.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:031662 031662 YKRS PROTEIN :	t19e03 x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:031662 031662	zt81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 6' similar to TR:G300482 G300482 DOI ⇒DEVIEDECE TDANSCOLLATAGE	281004.11 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 6' similar to TR:G300487	G30U48Z POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);	rouno sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Home sapiens calcineurin binding protein 1 (KIAA0330), mRNA	60157208/E1/NIU MOO 011	HA0086 Human fetal liver CNN library Home	HA0086 Human fela liver cDNA library Homo somions cons	Homo sapiens ALR-like protein mRNA, partial cole	2633c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540.3' similar to	Homo sapiens chromosome 21 segment Disascone	Homo sapiens KIAA0744 gene modificit bistoms deserting a grant to	Homo sapiens KIAA0022 gene product (KIAA0022)	Homo sapiens Usurain-alpha mRNA complete Act	Homo sapiens Usurpin-alpha mRNA, complete cds	
jle Exon Prob	Top Hit Database Source	EST_HUMAN	EST HUMAN		Т	T	HUMAN	T HUMAN	П	EST HUMAN	EST_HUMAN		T		ESI_HUMAN			T HI IMANI	Т	HUMAN		EST HUMAN of	Т				TN TN	
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	Most Similar (Top) Hit BLAST E Value	1.0E-124 AW6121	1.0E-124 AW6121	1.0E-124 /	1.0E-124	1.0E-124	1.0E-124 /	1.0E-124 AW5037	1.0E-124 U94776.1	1.05-124	1.0E-124 AI446455.1	1.0E-124 AI446455.1	1.0E-124 A	4 OE 424	1.0F-124	1 DE-124	1.0E-125 A	1.0E-125 B	1.0E-125 Al110656.1	1.0E-125 A1110656.1	1.0E-125 AF26475	1.0E-125 AA042813.1	1.0E-125 AL163210	1.0E-125	1.0E-125	1.0E-125 AF015450	1.0E-125 AF015450.1	
	Expression Signal	1.35	1.35	2.44	244	7.8	7.8	1.25	2.25	07.7	1.87	1.87	3.98	80 6	1.99	8	5.41	3.92	1.63	1.63	1.24	2.13	1.53	1.83	1.08	3.81	3.81	
	ORF SEQ ID NO:	27002	. 27003					1	28532	701,00	28162	28163	20429	20430	25005	25006		19778	20377	20378	20469	20619	20750	20890	21414	21545	21546	
	Exan SEQ ID NO:	16808	16808	17326	17326	17393	17393	070/1	18280	20001	17916	17916	10609	10609	19626	19626	10278	2866	10565	10565	10643	10769	10905	11050	12700	11668	11668	
	Probe SEQ ID NO:	6930	6930	7466	7466	7542	7542	0/0/	8645		8767	8767	9173	9173	9846	9846	316	420	628	978	13	842	982	1136	1649	1769	1/68	

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Table 4
Single Exon Probes Francescot i

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	2k53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to	Homo sariens inhining the Annual Transport of the PROTEIN HOMPOTE (HUMAN);	Homo septens inhibit alpha (INDA) IIIANA	oh6402 x5 NCI CGAP Kirls Home semiens CDNA classifications	Homo sapiens zinc finar protein ZNE202 (ZNE202) CONA	Homo sapiens zinc finger protein ZNE297 (ZNE297)	601141152F1 NIH MGC 9 Home company 2011 11 11 201	Homo sapiens KIAA0988 protein (KIAA0085)	601433477F1 NIH MGC 72 Homo conjunc albita 1	1601335826F1 NIH MGC 44 Home smiles CDNA Limit ST 2018962 67	801335826F1 NIH MGC 44 Home contact that I have been a limited to the limited to	Homo sanians (2F.1) dans even E	Homo sapiens (GF-II) gene even 5		Human chromosome 10 duplicated adrenoleukodystrophy (ALD) gene segment containing exons 8-10	Human chromosome 10 dimilizated advantagles de de de de de de de de de de de de de	OV1-HT0638-070500-101-442 Lttosas Lttosas Lttosas Lttosas Lttosas B-10	OV4-HT0838-070500-404-472-HT6838-11-	Homo sapiens I.RFI nene evon 5	X59f02.x1 NCI_CGAP_Gas4 Homo septiens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284 LAMBDA/IOTA PROTEIN KINASE CINTEDA ATTARO PROTEIN.	X59f02.X1 NCI_CGAP_Gas4 Homo saplens cDNA clone IMAGE:2622363 3' similar to TR:Q13284 Q13284	Hambourio IA PROTEIN KINASE C-INTERACTING PROTEIN. [1];	Homo septems minch for NIAAU667 protein, partial cds	Homo captaris myosin, nearly polypeptide 1, skeletal muscle, adult (MYH1), mRNA	RC3-ST0186-250200-018-41 ST0195-11	3V3-BT0569-020-20-0-10-01-10-10-10-10-10-10-10-10-10-10-	OV3-BT0569-02020-07-3-909 BT0569-0	Homo saplens mRNA for KIA Agest 7 - 11:10	Homo sapiens CDC-like kinase (CLK) mRNA	Human laminin B1 chain gene, exon 20
gle Exon Prot	Top Hit Database Source	EST HUMAN	L	LZ	EST HUMAN	1	N	EST HUMAN	1.	EST HUMAN	EST HUMAN	EST HIMAN	LN L	Z	1	Z	Þ	T HUMAN	Т	Т	EST HUMAN		1			T HUMAN	Т	Т	Т		
Sin	Top Hit Acession No.	AA042813.1	4504696 NT	4504696 NT	ı٣	11425114 NT	11425114 NT	1.0E-125 BE315412.1	11436448 NT	1.0E-125 BE892660.1			X03427.1	X03427.1	4 00000	Jankoo. I	_	1.0E-125 BE181640.1			_		37.1	7669505	1.0E-125 AF026029 1		Γ			2008	
	Most Similar (Top) Hit BLAST E Value	1.0E-125 AA0428	1.0E-125	1.0E-125	1.0E-125 AI7329	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1.0E-126 X03427	1.0E-125 X03427.	1 05 125 100288	1.05-123	1.0E-125 U90288.	1.0E-125	1.0E-125	1.0E-125	1.0E-125	1 0F-125	1.0E-125 AB0145	1.0E-125	1.0E-125	1.0E-125/	1.0E-125 E	1.0E-125	1.0E-125	1.0E-126	1.0E-126 M61936.
	Expression Signal	1.15	1.65	1.65	2.45	1.98	1.98	0.84	1.41	3.44	1.48	1.48	6.36	6.36	1 22	7	1.22	4.31	4.31	3.15	1.86	1.86	5.13	2.92	5.15	2.49	4.36	4.36	1.96	0.88	1.2
	ORF SEQ ID NO:	22228	22315	22316		24136		24195		25610	25993	25994	26093	26094	27043		27044	27343	27344	28211	28289	28290	28616	28748	28754	28804	28896	28897	29044	20525	20528
	Exon SEQ ID NO:		12424				_		- 1	- 1	15870	15870	15961	15961	16851		16851	17149	17149	17960	18040	18040	18351	18476	18482	18522	18607	18607	18749	10687	10690
	Probe SEQ ID NO:	2455	2551	2551	2555	4450	4450	4516	5581	5612	5965	5965		6201	6974		6974	7272	7272	8069	8152	8152	8478	8609	8615	8704	8783	8793	8941	757	760
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Table 4
Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	H.sapiens gene for alpha1-antichymotrypsin, exon 3	Homo saplens RAN binding protein 2 (RANBP2), mRNA	zo72c03.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'	2072c03.r1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420.5'	H.seplens DNA for liver cytochrome b5 pseudogene	Homo sapiens death receptor 6 (DR6), mRNA	Homo sapiens collagen type XI alpha-1 (COL11A1) gene, exon 63	Homo sapiens collagen type XI aipha-1 (COL11A1) gene, exon 63	yx78c06.r1 Soares melanocyte 2NbHM Homo sapiens cDNA clone IMAGE:267850.5	zx68e03.r1 Soares_total_fetus_Nb2HF8_9w Homo saplens cDNA clone IMAGE:796444 6 similar to TR:G1145880 G1145880 TITIN:	Homo sapiens mRNA for KIAA1 £25 protein partial cots	Homo sapiens mRNA for KIAA 1525 protein, partial cdls	Human mRNA for ankrin (variant 2.1)	602139138F1 NIH MGC 46 Homo sapiens cDNA clone IMAGE 4298240 5'	601149404F1 NIH MGC 19 Homo sapiens cDNA clone IMAGE:3502129 57	601577981F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE:3926685 5	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sepiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens DNA for amyloid precursor protein, complete cds	Homo sapiens intersectin short (soform (ITSN) mRNA, complete cds	Homo sapiens lost on transformation LOT1 mRNA, complete cds	Homo sapiens ubiquitin specific protease 8 (USP8) mRNA	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA	Homo sapiens feukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), EmRNA	Homo sapiens ribosomal protein 26 (RP) 26) mRNA	Homo saciens adlican mRNA, complete cds	Human mRNA for cytokeratin 18	2x42a02.r1 Scares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
. !	Top Hit Database Source	LN TN	NT	EST_HUMAN	EST_HUMAN	IN	LN L	NT	TN	EST_HUMAN	EST_HUMAN	Ę	¥	F	EST HUMAN	EST_HUMAN	EST HUMAN	E	F	Į.	뒫	E	MT	NT	¥.	TN	Į.	L	N.	NT.	N	EST_HUMAN
	Top Hit Acession No.	X68735.1	6382078 NT	4A160709.1	AA160709.1	X53941.1	7657038 NT	4F101108.1	4F101108.1	V34078.1	AA460075.1	1.0E-126 AB040958.1	1.0E-128 AB040958.1	K16609.1	3F683175.1	1.0E-126 BE261660.1	1.0E-126 BE743922.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	387675.1)87675.1	AF114488.1	U72621.2	4827053 NT	5803065 NT	5803065 NT	4506620 NT	AF245505.1	1	31.1
	Most Similar (Top) Hit BLAST E Value	1.0E-126	1.0E-126	1.0E-126 AA160	1.0E-126 AA160	1.0E-126 X53941	1.0E-126	1.0E-126 AF101	1.0E-126 AF101	1.0E-126 N34078	1.0E-126 AA4600	1.0E-126	1.0E-128	1.0E-126 X16609.1	1.0E-126 BF6831	1.0E-126	1.0E-126	1.0E-127	1.0E-127	1.0E-127	1.0E-127	1.0E-127 D87675.1	1.0E-127 D87675.1		1.0E-127	1.0E-127	1.0E-127	1.0E-127	1:0E-127	1.0E-127	1.0E-127 X12881	1.0E-127 AA4501
	Expression Signal	2.03	2.24	6.07	6.07	1.21	2.04	98.0	96'0	1.57	3.68	3.82	3.82	2.77	1.95	241	4.38	3.59	3.59	2.31	2.31	2.35	2.35	1.32	1.28	0.98	1.59	1.59	7.45	4.01	2.78	96.0
	ORF SEQ ID NO:		22317	22757				24356		24400	25795	25813	25814	26737	28366	28910	24890	19954	19955	19954	19955	20056	20057	20640	20669	21433	21800	21801	21939	22075	22330	22341
	Exon SEQ ID NO:	10826						14563		14614	15686	15703	15703	16540	18114	18620	15098	10138	10138	10138	10138	10238	10238	10789	10823	11567	11911	11911	12041	12176	12437	12450
	Probe SEQ ID NO:	901	2552	3035	3035	3577	3605	4677	4677	4728	5779	5797	5797	0999	8233	8806	9635	165	165	166	166	272	272	88	868	1665	2020	2020	2153	2294	2566	2579

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	zx42a02.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'	au80e06.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone INAGE:2782594 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN ;contains element MER22	repetitive element;	Homo sapiens delayed rectifier potassium channel subunit IsK mRNA, complete cds	Homo sapiens chromosome 21 segment HS21C047	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA	Homo sapiens cytochrome P450 retinoid metabolizing protein P450RAI-2 mRNA, complete cds	Homo sepiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products	Homo sapiens chromosome 21 segment HS21C068	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA	H.sapiens NOS2 gene, exon 6	H.sapiens TCF11 gene, exon 3-6	Homo sapiens integrin, beta 8 (ITGB8) mRNA	Homo sapiens Pendred syndrome (PDS), mRNA	Homo sapiens Pendred syndrome (PDS), mRNA	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively soliced complete ade	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184) mRNA	601434784F1 NIH_MGC_72 Homo saplens cDNA clone IMAGE:3919917 5'	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens mRNA for casein kinase I epsilon, complete cds	Homo sapiens gene for AF-6, complete cds	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618822 5'	Homo saplens chondrollin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA	Human FAU1P pseudogene, trinucleotide repeat regions	Human FAU1P pseudogene, trhucleotide repeat regions
le Exon Proc	Top Hit Database Source	EST_HUMAN		EST_HUMAN	L	NT	L	ΙN	LN	님	Z	N	LN L	N-	FN	FZ	Z.	NT	TN	L	NT.	NT	EST_HUMAN	EST_HUMAN	FZ	TN	IN	EST_HUMAN	. IN	브	NT	L
Suic	Top Hit Acession No.	131.1		297.1	188.1	247.2	7706239 NT	T706239 NT	297.1	4506384 NT	58.2	6912639 NT	X85764.1		4504778 NT	11421914 NT	11421914 NT	ങ.1	ങ.1	11427235 NT	11417339 NT	11417339 NT							4758081	4758081 NT		
	Most Similar (Top) Hit BLAST E Value	1.0E-127 AA450		1.0E-127 AW16	1.0E-127 AF135	1.0E-127 AL1632	1.0E-127	1.0E-127	1.0E-127 AF252	1.0E-127	1.0E-127 AL1632	1.0E-127	1.0E-127 X	1.0E-127 X	1.0E-127	1.0E-127	1.0E-127	1.0E-127 AF2748	1.0E-127 AF2748	1.0E-127	1.0E-127	1.0E-127	1.0E-127 B	1.0E-127 BE895415.1	1.0E-127 AB024597.1	1.0E-127 AB024597.1	1.0E-127 AB011399.1	1.0E-128 BE385617.1	1.0E-128	1.0E-128	1.0E-128 U02523.1	1.0E-128 U02523.1
	Expression Signal	96'0		0.88	1.09	0.86	21.46	21.46	0.92	4.16	1.93	0.98	3.72	2.67	6.76	1.38	1.38	4.97	4.97	1.17	· 6.74	6.74	2.46	2.46	1.66	1.66	2.1	4.46	1.48	1.48	12.19	12.19
	ORF SEQ ID NO:	22342		23435	23706	23802	23833	23834	24075	24178		24252	25533	25757	25835	26620	26621	27624	27626	280:12	28634	28635	29001	29002	19954	19955	25276	20214	20892	20893	21805	21806
	Exan SEQ ID NO:	12450	ü	13652	13929	14028	14060	14060	14291	14393	14425	14466	15462	15650	15722	16436	16436	17409	17409	17773	18371	18371	18707	18707	10138	10138	19177	10396	11052	11052	11916	11916
	Probe SEQ ID NO:	2579		3740	4026	4128	4160	4160	4395	4499	4532	4575	5546	5742	5816	6578	6578	7558	7558	7923	8498	8498	8898	8888	9397	9397	9595	452	1138	1138	2025	2025

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Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Most Similar Top Hit Acession (Top) Hit Signal BLASTE No. Source Source	13.3 1.0E-128 4506718 NT Homo sapiens ribosomal protein S2 (RPS2) mRNA	0.85 1.0E-128 11437455 NT Homo conions shows the	1.0E-128 AB03307	11426673 NT	11420965 NT	1.0E-128 BF22434	Į.	2	EST HIMAN	1.0E-128 11425254 NT	1.0E-128 AA926959.1	FST HIMAN	1.0E-128 AW955290.1 FST HI IMAN	1.0E-129 S37722.1 NT	1.0E-129 S37722.1 NT	1.0E-129 AL 096880.1	1.0E-129 AF240786.1	17	1.0E-129 11418522 NT	1.0E-129 4505682 NT	4505682 NT	Q14585	1.0E-129 Q14585 SWISSPROT	T	T	9.7 1.0E-129 AW 755254.1 EST HUMAN Cardiam associated rene expression library Homo sapiens cDNA clone 4151935 similar to CMYA5	EST_HUMAN
	Most Similar (Top) Hit BLAST E Value																											
	ORF SEQ Express ID NO: Sign	21950		23071	24245	25890			27047		28232	28240	28364		20182		21461	21465	21466		22503					23754	23856	23857
	Exon SEQ ID NO:	12049	5 12273		5 14457			_	16853		17983						11591	11595	11595	Ш]				13976	14083	14083
	Probe SEQ ID NO:	2162	2395	3348	4565	5865	6140	6976	6976	7834	8092	8101	8230	9263	116	407	1689	1693	1693	1802	2751	2751	3089	3089	3089	4073	4183	4183

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Charle Lyon r lodge Expressed III near	Top Hit Descriptor	Homo saniens KVI OT1 gene	Homo saciens KVI 011 cene	Homo sanians similar to ribosomal ambia. 200 11	Homo saniens mBNA for KIA A 0634	AT 2017 A Socres NILLING. C4 U.	Homo saniens similar to the control and the control of the control	AU143115 Y79AA1 Homo serions child clean 520 (H. sapiens) (LOC63694), mRNA	AU143115 Y79AA1 Home saplens CDNA clone X77A A1651410 5	949c05.r1 Soares fetal liver splean 1NFLS Homo sapiens cDNA clone IMAGE:199112 6' similar to	DKFZh789K171 r1789 (cmmm: Line) III AND AND AND AND AND AND AND AND AND AND	601121905F1 NIH MCC 30 Home Fig. 1900 Spring Sapiens CDNA clone DKFZp762K171 5	6011219951 FMIL MICC ZU Train Sapiens CLINA clone IMAGE:3346366 5	Himan cone for cetalons (EC 4.14.4.6)	Homo sanians RET finance material line 4	6013/2016E4 NILL MOC E2 1	601243016F1 NIH MCC 63 Homo capiens cDNA clone IMAGE:3685466 5	Homo sapiens rathed debut control and the control of the control o	601343016E1 NIH MCC 52 U	601343016E1 NIH MGC 53 LIDILI SEPIENS GLIVA GIONE IMAGE:3685466 5	ULHF-BN0-akken-06-0-11 H NIH MGC For Land	CM4-CN0045-180200-511-1811-180-5-30 Troing Sapiens CDNA clone IMAGE:3078731 5	RC0-CT0318-201199-031-911 CT0348 House College	RC0-CT0318-201199-031-a11 CT0318 Home canions cDNA	Home control of the c	FST388312 MAGE :: (SLC6A7), mRNA	Homo capiens mRNA for KIA 84325	Human cardiac alpha misseln home alele in Avaira	2758c04.r1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811 G222811 ALPHA 1 CHAIN OF TYPE XII COLI 1 CEN 1	### ### ### ### ### ### #### #########	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
פופ באטוו ר וס	Top Hit Database Source	Ā	Ę	N	LZ	FST HIMAN	-1	EST HUMAN	EST HUMAN	EST HIMAN	EST HUMAN	EST HIMAN	EST HIMAN		NT.	FST HIMAN	EST HIMAN	L	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	I	EST HIMAN	NT CONTRACT	Į.	r HUMAN		
5	Top Hit Acession No.	AJ006345.1	AJ006345.1	11420850 NT	1.0E-129 AB014534.1	AA625526.1	11420850 NT	15.1	15.1	-	1.0E-129 AL120739.1	3E275192.1	3E275192.1	X04092 1	1.0E-130 AJ010230.1	3E564219.1	3E564219.1	1.0E-130 AF240698.1	3E564219.1	3E564219.1	1.0E-130 AW 503580.1	1.0E-130 AW843993.1		1.0E-130 AW363299.1	11416777 NT	1.0E-130 AW9562421	Ī		0.0E+00 AA228126.1	0.0E+00 AA228128.1	5136
	Most Similar (Top) Hit BLAST E Value	1.0E-129 AJ0063	1.0E-129 AJ0063	1.0E-129	1.0E-129	1.0E-129 AA6255	1.0E-129	1.0E-129 AU1431	1.0E-129 AU1431	1.0E-129 H83155	1.0E-129	1.0E-130 BE2751	1.0E-130 BE2751	1.0E-130 X04092	1.0E-130	1.0E-130 BE5642	1.0E-130 BE5642	1.0E-130 /	1.0E-130 BE5642	1.0E-130 BE5642	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130	1.0E-130 M25140.	0.0E+00,A	0.0E+00	0.0E+00
	Expression Signal	2.89	5.17	7.59	3.68	3.52	9.4	2.04	2.04	1.87	1.88	6.81	6.81	2.06	7.7	1.1	1.1	1.07	4.77	4.77	1.09	7.48	1.09	1.09	2.04	2.45	1.57	32.43	2.49	2.49	1.44
	ORF SEQ ID NO:	25715		26286		28693	26286	28993	28994	 -		21408	21409			22564	22565	23243	22564	22565	23560	24122	24673	24674	26322	27187	27392	28650	19782	19783	19786
	S			16132	16720	18424	16132	18699	18699	18960	19203	11547	11547	11835	12605	12777	12777	13446	12777	12777	13768	14333	14902	14902	16165	16996	17190	18385	9991	9991	9993
	Probe SEQ ID NO:	5706	6229	6267	6841	8554	8618	8888	8888	9250	9630	1643	1643	1940	2743	2849	2849	3530	3703	3703	3857	4438	9029	5029	6301	7119	7314	8513	4	4	-

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens twoothetires protein El 120327/El 120274	Homo sapiens hypothetical protein E1 (70371 (12,20371), mRNA	Homo sapiens DCRR1 mRNA martial rde	Homo sapiens DCRR1 mRNA mettel such	Homo sapiens bela-tubulin mRNA complete cds	Human hebarin cofactor II (HCF2) gans exons 3 through 6	Homo sapiens RNA-binding protein S1 serine-rich damein (BNDS4)DNA	Homo sapiens mRNA for multidata resistance protein 3 / ABCCs	Homo sapiens mRNA for multidrar resistance protein 3 (ADCCS)	HUM516H08B Human placenta notva+ (TEillinger) Home companies - PMA 1	HUM516H08B Human placenta polyA + (TEritimore) Home control of the Cartesian	Human ribosomal motatin (7/PP) (1) meMA oversity (2) Memory (2) Memory (2) Memory (2) Memory (2) Memory (3) Me	cr48e07.x1 Jia bone marrow strome Home consider Chall Jianger	red8e07 v1 in home market elementation september CLNA clone HBMSC gr48e07 3	Human von Willahrand ferfor recurdence control of the control of t	Himan von Willahmad Ender nach jeseudugene corresponding to exons 23 through 34	Homo sanjens projeta tracina shock to the corresponding to exons 23 through 34	Homo saniens profells traceing phosphatase, not receptor type substrate 1 (PTPNS1) mRNA	Home canience profess tracelles the properties of the substrate 1 (PTPNS1) mRNA	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA	on89e04.s1 Soares_NFL_T_GBC_S1 Home sapiens cDNA clone IMAGE:1563870 3' similar to SW:TMOD_HUMAN_P28289 TROPOMODI II N	Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), nuclear gene	er coung mitochondrial protein, mRNA	numo sapiens nere ogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA	Humos appens acun, beta (ACTB) mRNA	Halad Puynomedic 1 nomolog (HPH1) mRNA, partial cds	Homo sanjens mRNA for KTA A4362 metric.	Hisabiens next news (exm. 2)	ts38b05x1 NCI_CGAP_Ut/t Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551	ts38b05.x1 NCI_CGAP_UtH Home sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551	INTERCHONDER I PANSCRIP I JON I ERMINATION FACTOR PRECURSOR.;
gle Exon Pro	Top Hit Database Source	ĪN	Z	Į.	Į.	N FN	Z	LN LN	۲	N	EST HUMAN		LN	EST HUMAN	FST HI MAN	LN	TN	FX	LN.	NT.	LN	EST HUMAN				MT	EST HIMAN	IN	N	EST HUMAN		1
uio	Top Hit Acession No.	8923349 NT	8923349 NT	1.		0.0E+00 AF141349.1	M58600.1	6857825 NT	Y17151.2	Y17151.2	0.0E+00 D78804.1	0.0E+00 D78804.1	L16558.1	0.0E+00 AW069534.1	0.0E+00 AW069534 1	0.0E+00 M60676.1	0.0E+00 M60676.1	TN 7788377	4758977 NT	4758977 NT	4758977 NT	AA953770.1	4504BED NIT	450 ASO NIT	F048080		3.1		-	-	-	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00 D83327	0.0E+00 D83327	0.0E+00	0.0E+00 M58600	0.0E+00	0.0E+00 Y17151	0.0E+00 Y17151	0.0E+00	0.0E+00	. 0.0E+00 L16558.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AA9537	0.05+00	0 0 1	00E+00	0.0F+00 ISO277	0.0E+00	0.0E+00 AB0377	0.0E+00 X91213	0.0E+00 AI62370	0 0F+00 A162370	
	Expression Signal	1.34	1.34	2.45	2.45	5.57	26.0	2.41	1.4	1.4	1.22	1.22	4.14	8.1	8.1	5.8	2.75	1.77	1.77	1.49	1.49	42.13	1 09	14 77	47.55	13.39	1.46	1.03	6.13	1.39	88	
	ORF SEQ ID NO:	19792	19793	19799	19800					19846	19847	19848	19849		19853	19857		19869	19870	19869	19870	19875	19877		19886	19889	19895	19896	19901	19906	19906	
	Exon SEQ ID NO:	10001	10001	10007	10007	10011	10020	10022	10038	10038	10039	10039	10040	10042	10042	10045	10047	10054	10054	10054	10054	10058	10060	10061	10070	10073	10079	10080	10085	10091	10091	
	Probe SEQ ID NO:	15	15	20	20	24	33	32	2	51	25	52	23	52	55	59	61	69	69	74	71	74	92	11	98	88	94	98	102	110	11	
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ongo Exon Tiones Expressed in Hear	Top Hit Descriptor	W01h09.r1 Soares melanocyte 2NhHM Homo canions of NA olders 1114 CE. carooza 21	W01h09.r1 Soares melanocyte 2NhHM Homo sonions 20NA aleman 2000 2000 2000 2000	Homo saniens neitroniin 2 (NRP2) mBNA	Homo sepiens polymerase (RNA) II (DNA direction) II III	Homo seniens animerase (RNA) II (DNA Jing Ani	va83a04.7 Stratagena fefal salesa //4032ang/ U	Va83004 72 Stratagene fetal splice: (#507205) 1.0m0 sapiens cDNA clone IMAGE: 68310 5	Homo saniens heteroreneans michae Henrich A. 7. 11 175 5	801460375F1 NIH MCC 66 Home conjunction (17.00)	Homo saniens haterodenen is hunden ille muchon ille mu	Homo sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos sapiens serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serina palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first Homos serial palmified frameforces of the first	6011740270E1 NIH M.CC 47 U.	601174270F1 NIH MGC 17 Hams carions of the class in the contractions of the contractio	zd62b05.r1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to	gp:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);	Homo sapiens zinc finger protein mRNA, complete cds	Homo sapiens chromosome 21 segment HS21 C002	Homo sapiens chromosome 21 segment HS21C002	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22631 :	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP:Y57A10A.Z CE22584	Homo sanjens mBNA for KIA 40.784 motein	Homo sapiens mRNA for KIA A0784 motion motion and	Human gamma-cytoplasmic actin (ACTGDO) programme	Homo sabiens CTCI filmor antique sold 3 mPNA America	Homo sapiens CTCL tumor antifican self4.3 mDNA complete Jacobs	Homo sapiens chromosome X MSI 3.2 protein mONA annulated de	Homo sapiens chromosome X MSI 3.2 hotelin mBNA Ammilita and	tq04f08.x1 NCI_CGAP_Ut3 Homo sapiens cDNA done IMAGE:2207847 3' similar to gb:J03191 PROFILIN I (HUMAN);	tq04f08.x1 NCI_CGAP_Ut3 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb.J03191 PROFILIN I	Homo saplens DNA mismatch repair protein (MLH3) gene, complete cds
TOT LYON 1 TOT	Top Hit Database Source	EST HUMAN	EST HUMAN	LN	N-	L L	EST HUMAN		4	EST HIMAN	ZI.	L'A	T HIMAN	Т		HUMAN			FN	EST HUMAN	FST HIMAN	Τ					Į.	IN	EST_HUMAN (TN
5	Top Hit Acession No.	0.0E+00 N36040.1	0.0E+00 N36040.1	4505458 NT	4505938 NT	4505938 NT	T56945.1	-	4504444	81.1	4504444		73.1						0.0E+00 AL163202.2	70.1		27.1		-				4.1			0.0E+00 AF195658.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00 T56945.	0.0E+00	0.0E+00 BF0368	0.0E+00	0.0E+00 AF1111	0.0E+00	0.0E+00	00.	0.00	0.00=+000	0.0=+00/	0.0E+00/	0.0E+00 BE0189	0.0E+00 BE0189	0.0E+00	0.0E+00 AB0183	0.0E+00 D50659	0.0E+00	0.0E+00	0.0E+00 AF16717	0.0E+00 AF16717	0.0E+00 AI587308.1	0.0E+00 AI587308.1	0.0E+00
	Expression Signal	1.83	1.83	98.0	3.17	3.17	1.49	1.49	9.05	242	15.84	1.36	1.1	1.18	COC	4 54	1.01	10.07	18.37	4.25	4.25	1.98	1.98	130.42	2.83	2.83	2.92	2.92	9.33	9.33	1.94
	ORF SEQ ID NO:	19907	19908	19913	19921	19922	19929	19930	100	19943		19946	19947	19947	10048	10040	19949	70001	19953	19960	19961	19964	19965	19976	19981	19982	19984	19985	19991	19992	19994
	_ w					10100	10108	10108	10121	10125	10127	10130	10132	10132	10133	10134	10137	2	10137	10145	10145	10150	10150	10159	10164	10164	10166	10166	12661	12661	10176
	Probe SEQ ID NO:	112	112	115	126	126	135	135	147	151	153	156	158	159	160	181	184			174	174	179	179	187	192	192	48	194	203	203	205

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO: 280 301 302	Exam SEQ ID- NO: NO: 10254 10265 10265	ORF SEQ ID NO: 20074 20075 20085 20086	Expression Signal 5.26 5.26 5.26 5.36 5.4.03	Mos Dill	Top Hit Acession No. 4557029 4567029 AB028942.1 AB028942.1	Top Hit Database Source NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Descriptor Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA Homo sapiens mRNA for KIAA1019 protein, partial cds Homo sapiens mRNA for KIAA1019 protein, partial cds
305		20087	1.99	0.0E+00 0.0E+00	AA480002	NT · EST_HUMAN NT	From septens floosonal protein S5 (RPS5) mRNA Homo septens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminolinidazole synthetase (GART) mRNA Z/18c06.IT Scares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:753994 5: Homo sapiens SON DNA binding protein (SON) mRNA
311 324 324 325 325	10285 10285 10285 10286 10286	20092 20092 20103 20103 20103	9.08 2.23 0.9 0.9 4.18 2.31	0.0E+00 0.0E+00 AF1144 0.0E+00 O14867 0.0E+00 0.0E+00	4507152 88.1 7657213 7657213	NT SWISSPROT SWISSPROT NT	Homo sapiens SON DNA binding protein (SON) mRNA Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HAZ303) TRANSCRIPTION REGULATOR PROTEIN BACH1 (BTB AND CNC HOMOLOG 1) (HAZ303) Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
342 342 345 348 353 353		20116 20120 20120 20125 20129 20130	3.67 0.86 3.76 0.8 2.15 2.15	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00	174574 505256 827057 1	TN TN TN TN	MLLT4) mRNA (MLLT4) mRNA Homo sapiens moesin (MSN), mRNA Homo sapiens X-box binding protein 1 (XBP1) mRNA Homo sapiens chromosome 21 unknown mRNA Homo sapiens chromosome 21 unknown mRNA Homo sapiens chromosome 21 unknown mRNA
356 358 359 369 360 372	12665 10313 10315 10316 10326	20133 20133 20137 20137 20149	3.4 0.89 1.4 1.37 1.52	0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00	503854	NAME	Homo sapiens chromosome 21 unknown mRNA. Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA. Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA. Human mRNA for KIAA0184 gene, partial cds. Human mRNA for KIAA0184 gene, partial cds.
387 387 390 391		20188 20156 20156 20156 20159	5.35 5.35 3.43 1.38 2.04	0.0E+00/ 0.0E+00/ 0.0E+00/ 0.0E+00	203680	T HUMAN	AUT34903 PLACET Homo sapiens cDNA clone PLACE1000899 5' Homo sapiens mRNA for KIAA1019 protein, partial cds 4)81h05x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb:X54199 PHOSPHORIBOSYLAMINE—GLYCINE LIGASE (HUMAN); RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA Homo sapiens IgG Fc binding protein (FC(GAMMA)RP) mRNA

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Single Exon Probes Expressed in Heart

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	Top Hit Descriptor	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA	H.sapiens gene for RNA pol II largest subunit, exons 23-29	H.sapiens gene for RNA pol II largest subunit, exons 23-29	Homo sapiens ribosomal protein L19 (RPL19) mRNA	yg09a02.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:31652 5	Homo saplens ribosomal protein S5 (RPS5) mRNA	Homo sapiens mRNA for KIAA1019 protein, partial cds	Homo sapiens SON DNA binding protein (SON) mRNA	Homo sapiens SON DNA binding protein (SON) mRNA	Mus musculus fruncated SON protein (Son) mRNA, complete cds	Homo sapiens Interferon gamma receptor 1 (IFNGR1) mRNA	EST27054 Cerebellum II Homo sapiens cDNA 5' end	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA	Homo sapiens 5-hydroxyfryptamine (serotonin) receptor 1B (HTR1B) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens chromosome 21 segment HS21 C046	Homo saplens chromosome 21 segment HS21C046	Homo sapiens mRNA for KIAA1209 protein, partial cds	AU132898 NT2RP4 Hamo sapiens cDNA clone NT2RP4000837 5	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5	PM0-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA	Novel human gene mapping to chomosome 1	Homo sapiens PC326 protein (PC326), mRNA	Homo sapiens chromosome 21 segment HS21C010	QV2-BT0635-160400-142-h05 BT0635 Homo sepiens cDNA	601764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996998 5'
	Top Hit Database Source	IN	N	N	LN LN	IN	ĮŅ.	NT	TN	TN	EST_HUMAN	TN	TN	NT	IN	TN	N F	EST_HUMAN	EST_HUMAN	TN	TN	TN	TN	IN	NT	TN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	١	NT	EST_HUMAN	EST_HUMAN
	Top Hit Acession No.	4503680 NT			4506608 NT	R17795.1	4506728 NT	2.1	4507152 NT	4507152 NT	7.1	4557879 NT	2.1	7.1	4504532 NT	4504532 NT	4557887 NT	4557887 NT	3.2	3.2	3.2		0.0E+00 AU132898.1	0.0E+00 BE385144.1	AW938825.1	7.	8923955 NT	22		0.0E+00 BF028005.1					
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X74870.1	0.0E+00 X74870.1	0.0E+00	0.0E+00 R17795.1	0.0E+00	0.0E+00 AB02894;	0.0E+00	0.0E+00	0.0E+00 AF19360	0.0E+00	0.0E+00 AA32426	0.0E+00 BE25444	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL163248	0.0E+00 AL163246	0.0E+00	0.0E+00 AB03303	0.0E+00	0.0E+00	0.0E+00 AW93882	0.0E+00 AL11723	0.0E+00	0.0E+00 AL163210	0.0E+00 BE08152	0.0E+00
	Expression Signal	2.04	1.17	1.64	1.64	2.43	6.0	0.84	0.84	43.09	1.31	2.61	2.42	4.7	4.7	3.51	2.01	86.0	0.91	3.15	3.15	1.27	1.27	2.26	7.05	7.05	2.59	1.64	2.17	1.05	1.07	1.64	3.91	1.97	1.13
	ORF SEQ ID NO:	20161	20162	20163	20164	20165	20166	20167	20168		19772		20190		20192		20206				20221		20229								20253	20254	20263		20273
	Exan SEQ ID NO:	10337	10338	10339	10339	10340	10341	10342	10342	10346	9981	10367	10368	10369	10369	10370	10382	10387	10388	10404	10404	10408	10408	10419	10420	10420	10428	10430	10438	12668	10440	10441	10450	12669	10462
	Probe SEQ ID NO:	391	392	393	393	394	395	396	396	400	414	422	423	424	424	425	438	443	444	460	460	465	465	475	478	476	485	487	495	496	498	499	909	515	520

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo caniane mBNA for KIA A 4472	Home saples franchillar dancellar face a family	Homo sapiens quanine pricientide hadra saction (Carry Control Homo sapiens quanine pricientide hadra saction (Carry Control Homo sapiens quanine pricientide hadra saction (Carry Control Homo sapiens quantine pricientide hadra saction (Carry Control Homo sapiens quantine pricientide hadra saction (Carry Control Homo sapiens and Carry Control Homo sapiens (Carry Control Homo sapiens and Carry Control Homo sapiens (Carry	Homo sabiens guanning pucleotide binding protein (6 protein), alpha 11 (6d class) (GNA11) mRNA	Homo saplens X-linked anhidroitic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	U-HBR -eeb-b-04-04 III st NOL COAP Street - Coast - Co	Homo sapiens RGH1 gene, retrovirus-like element	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRFS1), nuclear gene encoding mitochondrial protein mRNA	Human apolipoprotein A-I (ApoA-I) gene even 1	601822627F1 H MSC 78 Home content of MAC 11 11 11 11 11 11 11 11 11 11 11 11 11	Homo sapiens aceth Coeparate A cortection for the CARS Control of the Cartesians aceth Coeparate A cortection for the CARS Control of the CARS Control of the CARS Control of the CARS Control of the CARS Control of the CARS Control of the CARS Control of the CARS CONTROL of the CARS CON	Homo saniens Smad, and Olf Information in the Color of th	Homo sanlers Smad, and Olfurbrading and Indian Protein mKNA, partial cds	Home seniers NON actor MONA water MONA	Home sapiens Invited for density linear-dain 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Homo sapiens has density incoproceing elated protein 2 (LRF2), mRNA	Homo conjunction for density illustrated protein 2 (LKP2), mKNA	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens low density flooprotein related matrix 2 (LNF Z), mixing	Z60c07.r1 Sogres testis NHT Homo senions CDNA Alma 1878 CE Zacana Fi	Homo sapiens RGH2 gene, refrovirus-ilke element	2h51b04.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HI IMAN):	zh51b04.r1 Soares_fetal_liver_spleen_1NRLS_S1 Homo speliens cDNA clone IMAGE:415567 5' similar to	Homo sapiens novel SH2-containing matrix 2 (AISES)	Homo sablens alutamate receptor innotanic N mothy D constants	Homo sapiens (CCAAT-box-binding francaing a fact - 700 Fox	Human neutral amino acid transporter (ASCT4) and the control of th	Hamo sabiens sodiumicalcium exhanari inferm No. 2 Aroxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Homo sapiens sodium/calcium exchanger isoform NeCes (NCVA) mRNA, complete cds	Homo saplens protein kinase, X-linked (PRKX) mRNA
le Exon Pro	Top Hit Database Source	L	L	L _Z	7	Į.	EST HUMAN		<u> </u>	N	EST HUMAN		Į.	L	ĮN.	; l ₅		; E	15	1	ST HUMAN	NT	EST_HUMAN	EST HUMAN	1	L	_	N.	N		
Silis	Top Hit Acessian No.	0.0E+00 AB040909 1	6006030	4504036 NT	4504036 NT	0.0E+00 AF003528.1	24.1		5174742 NT		-	1501854	2.1	1		6918	TN18169089	FR06918 NT	6806918 NT	6806918 NT	0.0E+00 AA399486.1				885526	E009009 NT	5031624 NT	J05235.1		-	826947
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW13532	0.0E+00 D10083.1	0.0E+00	0.0E+00 J04066.1	0.0E+00 BF104898	0.0E+00	0.0E+00 AF221713	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00 D11078.1	0.0E+00 W78811.1	0.0E+00 W78811.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U05235.1	0.0E+00 AF108389	0.0E+00 AF108389.	0.0E+00
	Expression Signal	1.16	11.27	3.96	3.96	5.78	1.79	3.15	2.65	5.28	1.73	1.46	1.05	1.05	1.38	96.0	222	2.22	0.93	0.93	1.34	6.37	3.17	3.17	3.28	2.89	1.06	1.41	2.18	2.18	3.98
	ORF SEQ ID NO:	20280	20283		20285		20295		20318		20332	20336	20342	20343	20351	20354	20355	20356	20357	20358	20368	20372	20375	20376		20388	20391	20395	20398	20399	20404
	Exen SEQ ID NO:	10468	10471	10472	10472	10477	10485	10495	10510	10522	10525	10529	10534	10534	10543	10546	10547	10547	10548	10548	10556	10560	10564	10564	10567	10574	10576	10579	10583	10583	10588
	Probe SEQ ID NO:	526	529	530	530	536	244	554	571	584	282	593	208	598	607	610	611	611	612	612	619	823	627	627	88	637	839	642	948	8	652

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Oligie Exul Flobes Explessed III neal	Top Hit Descriptor	Homo sapiens protein kinase, X-linked (PRKX) mRNA	Human endogenous retrovirus pHE.1 (ERV9)	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA	Homo sapiens mRNA for KIAA1089 protein, partial cds	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	np49d01.s1 NCI_CGAP_Br1.1 Homo saplens cDNA clone IMAGE:1129633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);	Human von Willebrand factor gene, exons 23 through 34	Human von Willebrand factor gene, exons 23 through 34	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA	TCAAP100779 Pediatric acute myelogencus leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo	sapiens cDNA clone TCAAP0779	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds	Homo sapiens chloride channel CLC4 (CIC4) mRNA, complete cds	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9	Homo sapiens mRNA for KIAA1339 protein, partial cds	Homo sapiens zinc finger protein 212 (ZNF212), mRNA	Homo sapiens mRNA for repressor protein, partial cds	601445647F1 NIH_MGC_65 Homo sapiens cDNA done IMAGE:3849803 5'	y69g08.r1 Soares breast 2NbHBst Homo sapiens cDNA clone IMAGE:154046 5'	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA	Homo saplens gene for AF-6, complete cds	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA	Human mRNA for KIAA0184 gene, partial cds	Human mRNA for KIAA0184 gene, partial cds	H.saptens mRNA for interferon alphabeta receptor (long form)	Homo sapiens mRNA for KIAA0910 protein, partial cds	Homo sapiens mRNA for KIAA0910 protein, partial cds	Homo saplens pericentrin (PCNT) mRNA
פונים בעמון גוומם פול	Top Hit Database Source	ΕN	뉟	N FA			EST HUMAN	Г	N _T						HUMAN				NT	NT	NT		LN	EST_HUMAN	EST_HUMAN									
	Top Hit Acession No.	4826947 NT	X57147.1	4504424 NT	0.0E+00 AB029012.1	7657468 NT	0.0E+00 AA614537.1	0.0E+00 M60675.1	0.0E+00 M60675.1	5032192 NT	0.0E+00 AF264750.1	0.0E+00 AF264750.1 NT	11545800			0.0E+00 AF226990.2	AF226990.2	0.0E+00 AF170492.1	J03764.1	J03764.1	0.0E+00 AB037760.1	6912749 NT	D30612.1	0.0E+00 BE869735.1	R48915.1	5032086 NT	0.0E+00 AB011399.1	7661965 NT	D80006.1			۲.	0.0E+00 AB020717.1	5174478 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 X57147.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 J03764.1	0.0E+00 J03764.1	0.0E+00	0.0E+00	0.0E+00 D30612.1	0.0E+00	0.0E+00 R48915.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 D80006.1	0.0E+00 D80006.1	0.0E+00 X89772.1	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	3.98	96.0	4.56	4.35	2.03	19.46	7.66	7.66	1.45	3.89	3.89	9.78		1.7	1.12	1.12	2.4	1.55	1.55	0.78	1.12	0.81	2.17	3.38	2.4	1.58	2.97	1.17	1.17	2.64	2.37	2.37	6.84
	ORF SEQ ID NO:	20405		20419		20438	20450	20454	20455	20464	20470	20471	20474		20481	20505	20506	20507	20510	20511	20212	20513	20514	20215	20519	20520	20529	20533			20549	20553	20554	20560
	Exon SEQ ID NO:	10588	12672	10601	10606	10615	10625	10629	10629	10639	10644	10644	10646		l	10670	10670	10671	10674	10674	10676	10677	12676	10678	10682	10683	10692	10696	10705	10705	10710	10714	10714	10718
	Prabe SEQ ID NO:	652	829	299	672	682	692	969	969	706	712	712	714		719	739	739	740	743	743	745	746	747	748	752	753	762	765	775	775	780	784	784	789

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Table 4
Single Exon Probes Expressed in Heart

Single Exoll Plobes Expressed in near	Top Hit Descriptor	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens potassium voltage-gated channel, isk-related family, member 1 (KCNE1) mRNA	Homo sapiens serine-threonine protein khase (MNBH) mRNA, complete cds	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA	Homo sapiens T-cell lymphoma Invasion and metastasis 1 (TIAM1) mRNA	Homo sapiens T-cell lymphoma invasion and metastasts 1 (TIAM1) mRNA	Homo sapiens soditum/myo-inositol cotransporter (SLC5A3) gene, complete cds	Homo sapiens mRNA for KIAA1019 protein, partial cds	Homo sapiens mRNA for KIAA1019 protein, partial cds	Homo sapiens SON DNA binding protein (SON) mRNA	Homo sapiens mRNA for KIAA1019 protein, partial cds	Homo saplens ribosomal protein S5 (RPS5) mRNA	Homo sapiens mRNA for KIAA0910 protein, partial cds	Homo sapiens mRNA for KIAA0910 protein, partial cds	nj66d07.s1 NCI_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997453	nj66d07.s1 NCI_CGAP_Pr10 Homo sapiens cDNA clone IMAGE:997453	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA	Homo sapiens chromosome 21 segment HS21C003	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA	Homo sepiens chromosome 21 segment HS21C003	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA	Homo sapiens alpha-1-antichymotrypsin precursor, mRNA, partial cds	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]	protein C inhibitor [human, leukocytes, Genomic, 1216 nt, segment 2 of 5]
le Exon Pion	Top Hit Database Source			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	INT	NT	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT	NT	٦	NT	EST_HUMAN	EST_HUMAN	NT	NT	TN	NT	NT	NT	N.
Suio	Top Hit Acession No.	4507500 NT	7657213 NT	7657213 NT	4557686 NT	.1	.1	4503854 NT	4507500 NT	4507500 NT		0.0E+00 AB028942.1	\B028942.1	4507152 NT	0.0E+00 AB028942.1	4506728 NT	\B020717.1	\B020717.1	0.0E+00 AA533272.1	0.0E+00 AA533272.1	3F677694.1	7657213 NT	7657213 NT	7657213 NT	7657213 NT	AL163203.2	3E089592.1	3E089592.1	4L163203.2	4504958 NT	4504958 NT	4F089747.1	569364.1	569364.1	S69364.1
-	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF108830	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF027153	0.0E+00	0.0E+00 AB028942	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB020717	0.0E+00 AB020717	0.0E+00	0.0E+00/	0.0E+00 BF677694	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL163203	0.0E+00 BE08959;	0.0E+00 BE08959	0.0E+00 AL163203	0.0E+00	0.0E+00	0.0E+00 AF089747	0.0E+00 S69364.1	0.0E+00 S69364.1	0.0E+00 S69364.1
	Expression Signal	7.06	1.51	4.43	3.91	1.24	1.24	1.14	1.55	1.55	1.57	3.37	3.37	7.38	3.03	2.02	1.25	1.25	1.97	1.97	7.39	1.3	1.3	2.16	2.16	0.87	1.85	1.85	3.93	7.45	3.29	1.5	0.99	66'0	0.99
	ORF SEQ ID NO:		20581	20582	20584	20590	20591	20596	20601	20602		20613	20614	20615	20616		20620	20621	20622	20623		20624	20625	20626	20627		20655		20665			20673			20676
	Exan SEQ ID NO:	10719	10736	10737	10739	10744	10744	10749	10752	10752	10759	10763	10763	10764	10765	10766	10770	10770	10771	10771	10772	10776	10776	10777	10777	10799	10806	10806	L	10825	10825	10828			10829
	Probe SEQ ID NO:	790	807	808	810	816	816	821	825	825	832	836	836	837	838	839	843	843	844	844	845	849	849	850	820	873	880	880	890	006	903	904	906	902	905

Page 365 of 413 Table 4 Single Exon Probes Expressed in Heart

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Single Excit Plones Expressed in Heart	Top Hit Descriptor	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds	Homo saplens of cardiac alpha-mycsin heavy chain gene	Homo sapiens of cardiac alpha-myosin heavy chain gene	Homo sapiens of cardiac alpha-myosin heavy chain gene	Homo sapiens of cardiac alpha-myosin heavy chain gene	Human ras inhibitor mRNA, 3' end	Human ras inhibitor mRNA, 3' end	Human ras inhibitor mRNA, 3' end	Homo saplens thyrotrophic embryonic factor (TEF), mRNA	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA	0s98e03.s1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGF-1613404 31	os98e03.s1 NCI CGAP GC3 Homo sepiens cDNA clone IMAGE-1619404 3	Homo sapiens KIAA0929 protein Msx2 interaction nuclear terms (MNIXT) homology (VIAAAAAA)	Homo sapiens mRNA for PSP24, complete cds	PM2-GN0014-050900-001-f02 GN0014 Homo sepiens cDNA	PM2-GN0014-050900-001-f02 GN0014 Homo saniens cDNA	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA	Homo sapiens partial c-far gene, exons 2 and 3	Homo saplens partial c-fgr gene, exons 2 and 3	Homo sapiens chromodomain protein, Y chromosome-like (CDYI) mRNA	Human beta-tubulin (TUB4q) gene, complete cds	Human beta-tubulin (TUB4q) gene, complete cds	Human bela-tubulin (TUB4q) gene, complete cds	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapians 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene	Homo sapiens 14q32 Jagged2 gene, complete cds: and unknown gene	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA	Homo saplens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA	aa86g07.s1 Stratagene fetal retina 937202 Homo saplens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;	
	Top Hit Database Source	Ā	뉟	F	본	Į	占	본	Ę	NT	IN	EST HUMAN	EST HUMAN	IN	NT	EST HUMAN	EST HUMAN	EST HUMAN	NT	LN LN	N	Z	IN	NT	LN	NT	NT	INT	TN	N	NT.	NT	EST_HUMAN	
	Top Hit Acession No.	0.0E+00 L28101.1	0.0E+00 Z20656.1	0.0E+00 Z20656.1	0.0E+00 Z20656.1	Z20856.1	M37190.1	M37190.1	0.0E+00 M37190.1	4507430 NT	4507430 NT	0.0E+00 A/001948.1	0.0E+00 AI001948.1	7657266 NT	0.0E+00 AB030566.1						4757969 NT				.1	1.1		6.	.3		7661685 NT	5803114 NT	0.0E+00 AA458680.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Z20856.1	0.0E+00 M37190.1	0.0E+00 M37190.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X52207.1	0.0E+00 X52207.1	0.0E+00	0.0E+00 U83668.1	0.0E+00 U83668.1	0.0E+00 U83668.1	0.0E+00 AF198490	0.0E+00 AF198490	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
	Expression Signal	2.14	105.13	105.13	167.64	167.64	36.3	13.25	53.71	1.9	1.9	2.48	2.46	7.21	2.52	4.64	4.64	4.64	1.27	. 127	1.25	1.05	7.48	6.69	1.99	3.49	0.84	1.43	1.81	2.23	2.28	2.66	1.94	
	ORF SEQ ID NO:		20680	20681	20682							20717	20718	20720	20730	20736	20737	20738	20739	20740	20747	20755	20756	20756			20761	20761	20761	20762	20765	20769		
	Exon SEQ ID NO:	10830	10833	10833	10834	10834	10860	10861	10862	10863	10863	12681	12681	10872	10882	10890	10890	10890	10891	10891	10900	10910	10911	10911	10914	10914	10917	10917	10917	10918	10921	10925	10927	
	Probe SEQ ID NO:	906	909	606	910	910	935	936	937	938	838	946	946	948	929	296	2967	296	896	896	977	886	886	8	88	994	997	866	566	1000	1003	1007	1009	

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Table 4
Single Exon Probes Expressed in Heart

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Chiga Exoli Flores Explessed in near	Top Hit Descriptor	EST51i24 WATM1 Homo septens cDNA clone 51i24 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Set and Pro with BI ASTx or n)	EST51124 WATMI Homo sapiens CDNA clone 51124 similar to DNA-DIRECTED RNA POLYMERASE II	Homo sanjens TRAE femily mombas occasions in the contractions in the contraction of the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasions in the contraction occasion occasion occasions in the contraction occasion Homo sabjens TRAE family member accorded NFKB activator (TANK) mRNA	Homo sapiens hypothetical protein FI 1110s (FI 1110s)	Homo saplens heat shock 70kD protein 9B (modeling) (Hoppware)	Homo saplens cadherin & K-cadherin (fetal Maham) (CRUS) - RIVA	Homo sapiens cadherin 6. K-cadherin (fatal kidnew) (ODLE) - DNA	Homo sapiens hypothetical profess F 120005 (EL 120005)	Homo sanlens hundheller in tradels El 19666 (Fl. trades), IllianA	Homo saciens mBNA for state of the time 8 / Trio A a contract of the time in the time of time of the time of time of the time of the time of the time of the time of the time of time of time of time of the time of time	Home sensions handled for larger (1 Days 9818)	Homo sapiens ellodefine reservir all B Learning (FLZ20080), mRNA	Home sensions Dealth season in the India (ABA) mKNA	MRO BN0115, 200200, 002 Los Divisas 11	Homo canians particular all the control of the cont	Homo capiene potessium charmet, subramily K, member 9 (KCNK9), mRNA	Homo sapiens profess kings. VII-Led (PDIXX) But an included by MRNA	Homo saniens protein klasse, Villa Joseph	Homo saniens ribosomal protein S27a (PDS22A) - DNA	Homo sapiens hypothetical protein FI 120300 (FI 120300) - Bhin	Homo sapiens DNA for Human P2XM, complete cds	Homo saplens DNA for Human P2XM, complete cds	Homo sablens similar to ret internal membrana characteria DOMAGA INC.	Homo sapiens similar to rat internal membrana di commenti. Dontro di 2000.	Homo sapiens New38-hindring protein NewBP // OCE47201 - DAM	1022d10 x1 Soares, prednant uteris, NINDEL (LOCOTIZE), mixing	Homo sabiens mRNA for KIAAnona protein profess con Septems con Cone IMAGE:1697011 3	Homo saniens chemosome 12 and receive to 2000 and 12 and 1	domo saniens dinamate december 17 Meet	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA	Homo saplens mRNA for KIAA1414 protein, partial cds	
שום בעמוז בומ	Top Hit Database Source	EST HUMAN	EST HIMAN	ή.	LN	TN	NT	P	FN FN	E	Ł	LN	Į.	L Z	LA L	EST HIMAN	.1	1	Ę	-	5	7	NT					T HUMAN					
5	Top Hit Acession No.	N43182.1	N43182.1	4759249 NT	4759249 NT	R922933 NT	4758569 NT	4826672 NT	4826672 NT	8923624 NT	8923624 NT	0.0E+00 AJ245922.1	23087	5174384 NT	4758117 NT	0.0E+00 BE005208.1	3134	7706134 NT	4826947 NT	4826947 NT	4506712 NT	R923290 NT	9.1	9.1	7657468 NT	7657468 NT	7706500 NT	F-	0.1		7305076 NT	7305076 NT	0.0E+00 AB037835.1 N
	Most Similar (Top) Hit BLAST E Value	0.0E+00 N43182	0.0E+00 N43182	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.011-00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB00205	0.0E+00 AB00205	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AI147650	0.0E+00 AB02071	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.04	1.04	76.0	76.0	4.44	2.19	1.88	1.88	2.52	2.52	38.24	0.93	3.28	3.58	3.6	3.79	3.79	1.12	1.12	5.7	0.86	10.18	12.02	2.03	2.03	0.95	1	1.44	1.13	2.31	2.31	1.59
	ORF SEQ ID NO:	20774	20775	20776	20777		20792	20807	20808	20812	20813	20814		20818	20827	20837	20861	20862	20872	20873	20874	20876	20878	20879	20880	20881	20884	20885	20887	20896	20908	20909	20911
	Exam SEQ ID NO:	10930	10930	10931	10931	10935	10949	10966	10966	10970	10970	10971	10973	10975	10982	10996	11019	11019	11031	11031	11032	11034	11036	11038	11039	11039	11042	11043	11045	11054	1085	11065	11067
	Probe SEQ ID NO:	1012	1012	1013	1013	1017	33	- 546	1049	1053	1053	1054	1056	1058	1066	1080	1103	1103	1116	1116	1117	1119	1721	1723	1724	1124	1128	1739	1131	146 6	1152	1152	1154
																					_												_

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Table 4

Single Exon Probes Expressed in Heart	Top Hit Descriptor	Homo conjone Joseph 10 (VDT4n) - Dis	Home capitals residuit 16 (NR 118) mKNA	Home septens mult. (E. coli) nomolog 3 (MLH3), mRNA	Trains Sapiens ALK-like protein mKNA, partial cds	Homo sanione AI Dilly protein mRNA, partial cds	Homo sanjans AI Dilling section — Data	Homo sapiens chromosomo 2 Intel	Homo capians chandraling a fiftee	Homo saniens NE2 gans	Homo sepiens ribosomal prodein 62/2000) - 51/4	Homo sapiens Williams Beitran maden - 41.	Homo caniens mBNA for KIAAA607	Homo capiens mDNA 6 VIAA46A7	Homo serions IM K.	Home capiels Wolfam Syndrome (WFS) mRNA	nonio sapiens worram syndrome (WFS) mRNA	Fromo Sapiens Woffram syndrome (WFS) mRNA	monto sapiens protein phosphatase 2A BR gamma subunit gene, exon 5	Dome sapiens managed tumor deletion region protein 1 (RTDR1), mRNA	Homo septems madeon tumor defection region protein 1 (RTDR1), mRNA	Homo septens ring ringer procein 9 (RNF9), mRNA	Homo sapiens ring finance model: 0 (2N-1/3) mRNA	domo saniene mBNA 6 KIAAAETT	Homo sapiens KIAA0170 nene arceling (KIAA0170)	Homo sabiens Kidanian mene medina kita actor in this	Homo sapiens period (Drasophila) handara (Jebes) pura	Homo sabiens berind (Dinscophila) homeles 3 (PERS), IIINNA	Human endocenous retrovers HERV K40	Homo sabiens mRNA for Familial Odinal	Homo sapiens partial TTN neme for fittin	qg38b06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP:T27A1.5 CE14213 :	RAN, member RAS oncogene familyHomo sapiens RAN, member RAS oncogene family (RAN), mRNA	Unit (1, 1, 2, 4, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
gle Exon Prot	Top Hit Database Source	Ę	Ę		i k	LN L	L	L	LN	Z																				Ł		EST HUMAN		
Sin	Top Hit Acession No.	TN 788787	7657336 NT	I LC	0.0F+00 AF264750 4	AF264750.1	0.0E+00 AF264750.1	AF109718.1	4503098 NT	Y18000.1	4506718INT	9.1	5		517474R	5174748 NT	E474749 NIT	0.0E+00 AFDOR158 1	75.00	7657520 NT	5803146 NT	4508004 NT	5803146 NT	0.0E+00 AB011149.1	1965	7661965 NT	8567387 NT	TN 2857387 NT		0.0E+00 AJ250014.1		.	6042206 NT	
	Most Similar (Top) Hit BLASTE Value	0.0E+00	0.0F+00	0.0E+00 AF2647	0.0F+00	0.0E+00	0.0E+00	0.0E+00 AF1097	0.0E+00	0.0E+00 Y18000.	0.0E+00	0.0E+00 AF08447	0.0E+00	0.0E+00 AB04094	0.0E+00	0.0E+00	O OF TOO	0.05+00	0 OF+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M14123.1	0.0E+00	0.0E+00 AJ277892	0.0E+00 AI208756.	0.0E+00	
	Expression Signal	1.02	1.13	1.14	1.14	1.31	0.95	3.62	1.3	1.48	45.69	3.66	1.71	1.71	6.42	6.42	6.42	2.6	1-	-	1.71	0.82	1.07	4.1	1.06	4.64	4.1	4.1	1.35	0.89	9.13	0.96	8.18	
	ORF SEQ ID NO:	20920		20962		20964	20965	20988	20989		21009	21018	21022	21023	21036	21037	21038		21050	21051	21057	21058	21059	21061	21062	21063	21064	21065	21078	21147	21156	21160	21161	
	SEQ ID NO:	11074	11101	11116	11116	11117	12687	11134	11135			╛	11173	11173	11186	11186	11186	11187	12689	12689		11203	11205	11207	11208	11209	11210	11210	11221	11291	11298	11301	11302	
	SEQ ID NO:	1161	1191	1206	1206	1207	1208	1226	1227	1245	1253	1260	1266	1266	1278	1278	1278	1279	1289	1289	1295	1296	1298	1300	1301	1302	333	1303	1315	1386	1383	1396	1397	

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Table 4
Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | Homo capiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA | Homo saplens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA | Homo sapiens KIAA1114 protein (KIAA1114), mRNA | Homo sapiens KIAA1114 protein (KIAA1114), mRNA | Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements | Homo sapiens alpha1-6fucosytransferase (alpha1-6FucT) gene exon 7 | Homo sapiens titin (TTN) mRNA | Homo sapiens titin (TTN) mRNA | Human nebulin mRNA, partial cds | Human nebulin mRNA, partial cds | Novel human gene on chromosome 20
 | Novel human gene mapping to chomosome 1 | Human mRNA for KIAA0240 gene, partial cds | Homo sapiens calcineurin blinding protein 1 (KIAA0330), mRNA | Homo sapiens KIAA0170 gene product (KIAA0170), mRNA | Homo sapiens KIAA0170 gene product (KIAA0170), mRNA | Homo sapiens RFB30 gene for RING finger protein

 | Human von Willebrand factor pseudogene corresponding to exons 23 through 34

 | Human von Wilebrand factor pseudogene corresponding to expns 23 through 34 | Homo sapiens hHDC for homolog of Drosophila headcase (LOC5/696), mRNA | aa34a03.r1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:815116 5' | Cercopithecus aethiops cyclophilin A mRNA, complete cds | Cercopilhecus aethiops cyclophilin A mRNA, complete cds
 | Bovine mRNA for neurocalcin
 | Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein

 | (Littly and Firs) genes, complete cas | Hours sarions transmembrans absorbated (GPNMB) mRNA | Home earliers KIAAROS7 pratein (KIAAROS7) DNA | Homo sapiens TNF-inducible profeip CG12-1 (CG12-1) DNA | Human transdutaminase mRNA, complete ods | Homo sapiens titin (TTN) mRNA
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 | 1.03 | 1.22 | 4.97 | 1.51 | 1.51 | 0.97

 | 3.65

 | 3.65 | 1.32 | 0.95 | 11.95 | 11.95
 | 76.0
 | 203

 | 3.9 | 3.9 | 3.12 | 8.41 | 5.02 | 5.75
 | 5.75 | 10.12 |
| ORF SEQ
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 | 21215 | 21220 | 21223 | 21225 | 21226 |

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 | 21292 | |
| Exan
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 | 11435 | 12697 |
| Probe
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NO: | 1407 | 1407 | 1409 | 1409 | 1412 | 1421 | 1432 | 1432 | 1437 | 1437 | 1445
 | 1447 | 1451 | 1454 | 1456 | 1456 | 1457

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Olligio Lauri Frances Lapresseu III realt	Top Hit Descriptor	Human laminin receptor (2H5 epitope) mRNA, 5' end	Homo saplens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	H.saplens hH2B/e gene	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'	Homo sapiens mRNA for KIAA1472 protein, partial cds	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA	Human sodium channel mRNA	yo76c05.s1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:183848 3'	Homo saplens mRNA for KIAA1609 protein, partial cds	Homo saplens mRNA for KIAA1609 protein, partial cds	wg81b07.x1 Soares NSF F8 9W OT PA P_S1 Homo sapiens cDNA clone IMAGE;2371477 3' similar to TR:062788 Q62788 CYS2HIS2 ZINC FINGER PROTEIN :	Homo sapiens T-cell receptor gamma V1 gene region	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds	Human Zinc-finger protein 7 (ZFP7) mRNA, complete cds	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA	Homo saplens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA	yo59e08.r1 Soares breast 3NbHBst Homo sapiens cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN):	yo59e08.11 Soares breast 3NbHBst Homo saptens cDNA clone IMAGE:182246 5' sImilar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN):	H.sapiens H2B/h gene	H.sapiens H2B/h gene	Homo saplens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
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ariio	Top Hit Acession No.	M14199.1	4507720 NT	4507720 NT	4503098 NT	Z83738.1	5921460 NT	5921460 NT	0.0E+00 AV690831.1		0.0E+00 AB040905.1	6.1	7662183 NT	7662183 NT	5729876 NT	5729876 NT	1	1		0.0E+00 AB046829.1	0.0E+00 AI768104.1	7.1		1	4657887 NT	7857085 NT	4557610 NT	130132.1	_			5031748 NT
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Acession No: Acession No: Acession No: Acession | Exon SEQ ID 1D NO: CRF SEQ ID ID NO: Expression Signal Signal (Top) Hit Top Hit Acession No: Top Hit Acession No: | Exon No: 1 In No: 21442 Expression Signal In No: 21442 Most Similar Autoression Signal In No: 21442 Most Signal Autoression No: 21442 Most Signal Autoression No: 21442 Top Hit Accession No: 21444 Top Hit Accession No: 214444 Top Hit Accession No: 214444 Top Hit Acces | Exon No: 1 In No: Signal No: Sig | Exon SEQ ID NO: CRF SEQ Signal Signal ID NO: Most Similar Signal Signal Signal Signal Signal Signal NO: (Top) Hit Acession No: Top | Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession No. | Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession No. | Exon ORF SEQ Expression Signal (Top) Hit Top Hit Acession No. Top Hit Acession No.
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Peco Peco </td> <td> Pach Charles</td> <td> Pearl Pear</td> <td> 1574 21442 4.56 Concession Concess</td> <td> Dark Part </td> <td> Part
Part Part </td> <td> Page </td> <td> Page </td> | Expr DRF SEQ Most Similar Similar Most Similar Size Top Hit Acession (Top Hit Acession No. Source Top Hit Descriptor Top Hit Descriptor 11574 21442 4,56 0.0E=00 MX3980.1 NI Horns septiens FOX.12 forkhead factor (LOC56810), mRNA 11579 21448 1,02 0.0E=00 MX3980.1 NI Human hepatocyle growth factor gene, conn 15 11579 21448 1,02 0.0E=00 MX3980.1 NI Human hepatocyle growth factor gene, conn 15 11579 21448 1,02 0.0E=00 MX3980.1 NI Horns septiens RON Life growth factor gene, conn 15 11589 21460 0.0E=00 MX3980.1 NI Horns septiens RON Life growth factor gene, conn 15 11589 21480 0.0E=00 MX3980.1 NI Horns septiens RON SON SON SON SON SON SON SON SON SON S | Expr Nace Similar Most Similar Top Hit Pop Hit Acession Top Hit Descriptor Top Hit Descriptor 11574 21442 4,66 0.0E=00 M7598.1 Mo. Source Foundation of the complete of | Pecon Peco
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Table 4
Single Exon Probes Expressed in Heart

Single Exon Probes Expressed in Heart	Signal ORF SEQ Expression (Top) Hit Acession ID NO: Signal BLASTE No. Source Source		21604 2.08 0.0E+00 BE277465.1 EST HUMAN	21623 0.99 0.0E+00 BE006292.1 EST HUMAN	21651 3.52 0.0E+00 4506384 NT	21652 3.52 0.0E+00 4506384 NT	1.65 0.0E+00 AF157476.1 NT	21661 4.06 0.0E+00 M98478.1 NT	21662 4.06 0.0E+00 M98478.1 NT	21669 2.28 0.0E+00 4507464 NT	21670 2.28 0.0E+00 4507464 NT	5.25 0.0E+00 AF240786.1 NT	1.9 0.0E+00 M65632.1 NT	21678 0.94 0.0E+00 5901905INT	21685 1.97 0.0E+00 4809282 NT	21686 1.97 0.0E+00 4809282 NT	1.12 0.0E+00 AL163252.2 NT	21700 1.15 0.0E+00 8400716 NT	21701 1.15 0.0E+00 8400716 NT	21702 8.13 0.0E+00 4826638 NT	21703 8.13 0.0E+00 4826638 NT	21715 1.21 0.0E+00 AB018333.1 NT	21716 1.21 0.0E+00 AB018333.1 NT	21720 2.01 0.0E+00 M33782.1 NT	21721 2.01 0.0E+00 M33782.1 NT	21722 1.33 0.0E+00 AW193024.1 EST HUMAN	21723 1.33 0.0E+00 AW193024.1 EST_HUMAN	21724 8.4 0.0E+00 6912457 NT	21725 8.4 0.0E+00 6912457 NT	21727 0.92 0.0E+00 Z47556.1 NT	21728 0.92 0.0E+00 Z47556.1 NT	21737 2.31 0.0E+00 AB040946.1 NT	21759 0.86 0.0E+00 AF273841.1 NT	21760 0.86 0.0E+00 AF273841.1 NT
	ORF SEQ ID NO:	21603	21604	21623	21651	21652		21661	21662	21669	21670			21678	21685	21686		21700	21701	21702	21703	21715	21716	21720	21721	21722	21723	21724	21725	21727	21728	21737	21759	21760
	Exon SEQ ID NO:		11729			11777		12707	12707	11790	11790	11794	11799	12708	11808	11808	11819	11821	11821	11822	11822	11832	11832	11838	11838	1840	11840	11841	11841	11843	11843	11850	11868	11868
	Probe SEQ ID NO:	1832	1832	1852	1881	1881	1889	1890	1890	1895	1895	1898	1903	1905	1913	1913	1924	1926	1926	1927	1927	1937	1937	1943	1943	1945	1945	1946	1946	1948	1948	1955	1975	1975

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	601573895F1 NIH_MGC_9 Homo sepiens aDNA done IMAGE:3835198 5	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5	Homo sapiens coagulation factor IX (plasma thrombopiastic component, Christmas disease, hemophilia B) (F9) mRNA	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'	Homo sapiens KIAA1114 protein (KIAA1114), mRNA	Homo sapiens KIAA1114 protein (KIAA1114), mRNA	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10	7822E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA	HSC0IC021 normalized infant brain cDNA Homo sapiens cDNA clone c-0ic02	qv90f08.x1 NCI_CGAP_Utz Homo sapiens cDNA clone IMAGE:1988871 3' similar to contains Alu repetitive		001465140F1 NIH, MISC. 09 Homo saplens cDNA clane IMAGE:3887747 5	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'	601902604F1 NIH_MGC_19 Homo sapiens cDNA clane IMAGE:4135320 5'	RC3-CT0413-270700-022-d10 CT0413 Homo saplens cDNA	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA	Human plasma membrane calcium ATPase Isoform 2 (APT2B2) mRNA, comlete cds	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, comlete cds	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA	Homo sapiens X-linked juvenile retinoschisis protein (XLRS1) gene, exon 6 and complete cds	601672066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5	Homo sapiens flavin containing monooxygenase 2 (FMO2) mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA	QV-BT065-020369-092 BT065 Homo sapiens cDNA	QV-BT065-020399-092 BT065 Hamo saplens cDNA	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNIMB3L), mRNA	Human DNA-binding protein mRNA, 3'end
le Exon Prob	Top Hit Database Source	EST_HUMAN	HUMAN		EST_HUMAN		NT	EST_HUMAN	T_HUMAN		LN.	EST_HUMAN		ESI HUMAN	Т	T	П		T_HUMAN				T_HUMAN		32.1 EST_HUMAN			T HUMAN	EST HUMAN	EST_HUMAN		Į.
Sirio	Top Hit Acession No.	BE743215.1	0.0E+00 BE743215.1	4503648 NT	0.0E+00 AU140831.1	7705565 NT	7705565 NT	39.1	സ	7657468 NT	4585863 NT	742399.1	, 2,00,00	0.0E+00 AIZ44Z47.1	DEB//223.1	3F315325.1	3F315325.1	0.0E+00 BE697125.1	0.0E+00 BE697125.1	.00620.1	1	4758489 NT	54.1	\F018963.1	0.0E+00 BF027562.1	4503756	0.0E+00 AF240786.1	708.1	0.0E+00 AI904640.1	0.0E+00 Al904640.1	7657252 NT	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AA0775	0.0E+00(AA0775	0.0E+00	0.0E+00	0.0E+00 Z42399	20.70	0.05+00	0.05+00	0.0E+00 BF3153,	0.0E+00 BF3153;	0.0E+00	0.0E+00	0.0E+00 L00620.	0.0E+00 L00620.	0.0E+00	0.0E+00	0.0E+00 AF0189	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW7527	0.0E+00 ₽	0.0E+00	0.0E+00	0.0E+00 L14787.
	Expression Signal	1.09	1.09	0.96	5.46	1.01	1.01	1.95	1.95	2.34	1.6	0.92	70,7	4 6	7.08	1.5	1.5	2.42	2.42	2.53	2.53	1.32	2.63	1.13	3.09	2	0.99	1.16	1.96	1.96	1.19	1.6
	ORF SEQ ID NO:	21793	21794	21795	21796	21177	21178	21798	21799			21802		24044	71017	21813	21814	21819	21820	21826	21827	21831			21854	21855	21856	21857	21859	21860		
	Exan SEQ ID NO:	11903	11903	11905		11314	11314	11908	11908	11910	11912	11913	34044	11000	0761	11922	11922	11926	11926	11931	11931	11936	11957	11958	11960	11961	11963	11964	11966	11966	- 1	12020
	Probe SEQ ID NO:	2011	2011	2013	2014	2015	2015	2017	2017	2019	2021	2022	7000	2020	2023	2031	2037	2035	2035	2040	2040	2045	2067	2068	2070	2071	2073	2074	2076	2076	2112	2132

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	601122338F1 NIH MGC 20 Homo sapiens cDNA clone IMAGE 3346688 로	Human mRNA for KIAA0244 gene, partial cds	AV738288 CB Homo sapiens cDNA clone CBNBDF0R 5'	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5	0032e01.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE-1567895 9	Human apolipoprotein B-100 (apoB) gene, exons 22 through 29	602014829F1 NCI CGAP Bm64 Homo sapiens cDNA clone IMACE: 4150734 51	601572186T1 NIH MGC 55 Homo sapiens cDNA clone IMAGE-3839012 3	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA	CM1-TN0141-250900-439-b08 TN0141 Homo sepiens CDNA	601900261F1 NIH_MGC_19 Homo saplens cDNA done IMAGE:4129622 5	bb84e02.yf NiH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-REI ATED PROTEIN .	2k53c07.s1 Soares pregnant uterus NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to	gb:X6585/_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);	2k3c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-I IKE PROTEIN HOMBOTE (UTIMAN).	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens chromosome 21 segment HS21 China	Homo sapiens KIAA0952 protein (KIAA0952) mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Human beta-prime-adaptin (BAM/22) gene, exon 16	Homo sapiens E1A binding protein p300 (EP300) mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5	601495208F1 NIH MGC 70 Homo sapiens cDNA clone IMAGE 3897457 51	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'	Homo sapiens mRNA for KIAA1363 protein, partial cols	Homo sapiens differentially expressed in FDCP (mause homolon) 6 (DFFR) mRNA	Homo sapiens differentially expressed in FDCP (marise homolog) (DEEs), making	0209007.x1 Scares fetal liver spleen 1NFLS S1 Homo sariens cDNA clone INA CE: 1872829.9	ZV78a11.r1 Soares total fetus Nb2HF8 9w Homo saniens CIDNA Clone NAACE:750740 E	ZV78a11.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE-750740 F	602021849F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157339 5'
gle Exon Pro	Top Hit Database Source	EST HUMAN	NT	EST HUMAN	EST HUMAN	EST HUMAN	Į.	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	14444111	ESI HUMAN	EST HUMAN	<u>F</u>	N.	F	FZ	N-	TA	TN	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	LN LN	FZ	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN
UIS .	Top Hit Acession No.	BE274696.1	D87685.1	0.0E+00 AV738288.1	0.0E+00 AV738288.1	0.0E+00 AA931691.1						3F313617.1	0.0E+00 BE018750.1	400000	4404Z813.1	3.1		4.2	7662401	7662401 NT	-	4557556 NT	7662401				0.0E+00 AB037784.1	11545748 NT	11545748 NT	<u></u>	Ξ.	1.1	7:
	Most Similar (Top) Hit BLAST E Value	0.0E+00 BE27469	0.0E+00 D87685	0.0E+00	0.0E+00	0.0E+00	0.0E+00 M19828.	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BF31361	0.0E+00	0	U.UE+UU AAU4Z81	0.0E+00 AA04281	0.0E+00/	0.0E+00 AL16320	0.0E+00	0.0E+00	0.0E+00 U36264.	0.0E+00	0.0E+00	0.0E+00 BE89528	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AI076404	0.0E+00 AA42900	0.0E+00 AA42900	0.0E+00 BF34703
	Expression Signal	1.02	1.09	10.46	10.46	1.4	0.9	17.1	11.29	2.35	2.35	1.77	1.92	C	0.92	0.92	2:32	2.32	2.63	2.63	1.04	7.56	1.44	1.09	0.87	78.0	1.36	4.16	4.16	2.51	2.21	2.21	2.23
	ORF SEQ ID NO:		21925	21926	21927	21929			21934	21937	21938	21943	21946	21047	14617	21948	21956	21957	21958	21959		21984	21988	21996	21999	22000	22002	22034	22035	22036	22038	22039	22041
	Exon SEQ ID NO:	12026	12028	12029					. 1	12040		12714	12046	12047	15041	12047	12055	12055	12056	12056	12061	12080	12086	12093	12096	12096	12098	12137	12137	12138	12140	12140	12142
	Probe SEQ ID NO:	2138	2140	2141	2141	2143	2145	2148	2149	2152	2152	2156	2159	2160	3	2160	2168	2168	2169	2169	2174	2193	2199	2206	5209	2209	2212	2253	2253	2254	2256	2256	2258

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Table 4
Single Exon Probes Expressed in Heart

מייפיס באסייר ווו חפמים ווו חפמין	p Hit tabase ource	Homo saplens potassium channel Kv2.1 mRNA. complete cds	Homo sapiens flavin confaining monoxygenase 3 (FMO3), mRNA		1	\top	Г	Homo saplens sperm specific antigan 2 (SSFA2), mRNA	Homo saplens titin (TTN) gene, alternative solice products, partial cds	Homo saplens titin (TTN) gene, alternative splice products, partial cris	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA	Г			П	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (HRPD) mRNA	Homo sapiens hexose-6-phosphate dehydrodenase (diucosa 1-dehydrogenasa) (HRDD) mRNA	Homo saplens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450	MAN A 1148082 HENDA 1	Т	Т	Т				7	Т	Т	Homo sapiens gene for cholecystokinin type-A recentor complete cde	Homo saplens gene for cholecystokinin type-A receptor, complete cds
i longs Expressed III near	± 92 ⊕	Homo sapiens potassium channe	Homo sapiens flavin containing m		1	Т	Г	Homo saplens sperm specific ant	Homo saplens titin (TTN) gene, a	Homo sapiens titin (TTN) gene, a	Homo sapiens signal regulatory p	Г			П	Homo sapiens hexose-6-phospha	Homo sapiens hexose-6-phospha	Homo sapiens cytochrome P450 4 (CYP3A4) and cytochrome P45	Т	Т	Т	Т	П			Τ	Т	Т	Homo sapiens gene for chalecyste	Homo saplens gene for cholecysto
218	Top Hit Database Source	뉟	보	EST HUMA	N L	EST HUMAN	Ρ	F	٦	뉟	卜	EST_HUMAN	EST_HUMAN	EST HUMAN	1	₽	۲	Į.	FOT HIMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	FST HIMAN	EST HUMAN	EST HUMAN	Z	Ε	N FN
	Top Hit Acession No.	0.0E+00 L02840.1	6325466 NT	0.0E+00 BE676095.1		7	5803178 NT	5803178 NT	0.0E+00 AF058332.1	0.0E+00 AF058332.1	5174678 NT	0.0E+00 AU131142.1	0.0E+00 BE794026.1	0.0E+00 AW867076.1	7662017 NT	4758497 NT	4758497 NT	0 0F+00 AF280407 4	AI 1118082 1	0.0E+00 AU118082.1	0.0E+00 AU118082.1	0.0E+00 BE814424.1	0.0E+00 AU119582.1	0.0E+00 Al042035.1	0.0E+00 AW303998 1	Γ	2.1	5006002	0.0E+00 D85606.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	001100	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.19	2.03	-	10.08	272	1.76	1.76	4.28	4.26	2.88	1.75	5.71	0.98	1.97	1.44	1.44	234	7.57	75.7	7.57	0.96	1.34	3.64	0.98	2.03	1.69	5.63	2.48	2.48
	ORF SEQ ID NO:		22048	22054	22056					22073		22083		22084	22085	22086	22087		22088	22089	22090		22138		22141			22158	22162	22163
[Exon SEQ ID NO:	12147	12148	12155	12158		12164	12164	12173	12173	12182	12185	12186	12187	12188	12189	12189	12190	12191	12191	12191	12208	12243	12246	12249	12251	12262	12265	12268	12268
	Probe SEQ ID NO:	2263	2264	2271	2274	2275	2280	2280	2291	2291	2300	2304	2306	2306	2307	2308	7308 7308	2309	2310	2310	2310	2327	2363	2366	2369	2371	2382	2386	2390	2390

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Table 4
Single Exon Probes Expressed in Heart

	Top Hit Descriptor	Homo sapiens (mmunodiobulin-like transcript 1c variant 4 /II T1c) rene	602018058F1 NCI CGAP Brig7 Homo sablens cDNA clone IMACE: 4153870 F	Homo sapiens collagen, type XII, abha 1 (COI 1241) mRNA	MT0033 Homo sapiens cDNA	70033 Homo sapiens cDNA	piens cDNA clone IMAGE:4300383 3'	ens cDNA clone IMAGE:2872759 3'	mo sapiens cDNA clone IMAGE:3072780 5'	1 2 catalytic subunit (PRKAA2) mRNA	catalytic subunit (PRKAA2) mRNA	MACT SECTOR OF	MGE:3946518 5	CDNA close IMAGE:3000525 9	COLOR HIVE THE SUCCESSOR S	FRI) mRNA	1.42) III.N.M.A. 5.3005148 F:	M121 (POM121 1) mRNA	VAN (1212111111111111111111111111111111	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		E:3909866 5'	E:3891371 5'	E:3891371 5'		E:3451161 5'	0.00	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3E:2987955 5'	AGE: 3' similar to TR:000246 000246		3E:3529159 5'
Single Exon Probes Expressed in Heart		Homo sapiens immunodi	602018058F1 NCI CGAP	Homo sapiens collagen, type	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA	602184558T1 NIH_MGC_42 Homo sepiens cDNA clone IMAGE:4300383 3	ha04h04.x1 NCI_CGAP_Kid12 Homo saplens cDNA clone IMAGE:2872759 3	UI-HF-BP0p-ais-c-07-0-UI.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA	Houro Sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA RC3-ST0197-300300-014 -01 ST0107-1	601597530F1 NIH MGC 7 Homo capient oblive during in Action in Acti	Homo sapiens death receptor 6 (DR6) mRNA	UI-H-BI4-aoz-b-08-0-UI st NCI CGAP Sub8 Homo saniems CDNA close IMA CE 2009 E20	Homo saplens mRNA for membrane transport protein (XK gene)	Homo sapians platelet-derived growth factor receptor-like (PDGFRI) mRNA	601503356F1 NIH MGC 70 Homo sapiens cDNA clone IMAGE 201548 F	Homo sapiens similar to rat integral membrane discondinin POM121 (POM12111) mBNA	RC4-HT0276-160200-013-405 HT0276 Homo saplens cDNA	Homo sapiens hypothetical protein FLJ20366 (FLJ20366), mRNA	Human Sec62 (Sec62) mRNA, complete cds	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909866 5	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5	601064738F1 NIH MGC 10 Home cast	AU143277 Y79AA1 Homo saniens chiva clare WAGE:3	AU143277 Y79AA1 Homo sapiens cDNA clone Y79A 41001673 5	601105312F1 NIH MGC 15 Homo sepiens cDNA clare MACE:20879EF F	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'	7q27h12.x1 NCI_CGAP_GC3 Homo sapiens cDNA clone IMAGE: 3' similar to TR: 000246 000246 HYPOTHETICAL 9.3 KD PROTEIN	Homo sapiens adlican mRNA complete cds	601173631F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529159 5
gie Exon Pro	Top Hit Database Source	N N	EST HUMAN	Ί.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ĮN Į	FST HIMAN	EST HUMAN	NT	EST HUMAN	NT	NT	EST_HUMAN	NT	EST_HUMAN	NT	NT	EST_HUMAN	EST HUMAN	ESI_HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	N	EST_HUMAN
<u> </u>	Top Hit Acession No.	AF106275.1	BF345274.1	5729777 NT	0.0E+00 BE831003.1	0.0E+00 BE831003.1	0.0E+00 BF569144.1	0.0E+00 AW466922.1	4W501010.1	5453965 NT	4W813853.1	3E795542.1	7657038 NT	0.0E+00 BF509482.1	732684.2	5453871 NT	3E910378.1	7657468 NT	0.0E+00 BE150865.1	8923340 NT		0.0E+00 BE886490.1	3E875511.1	E245505.1	E536921.1	7.1	7.1	E292896.1	3.1	-	2	
Most Similar	(Top) Hit BLAST E Value	0.0E+00 AF10627	0.0E+00 BF34527	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00 AW5010	0.05+00	0.0E+00 AW8138	0.0E+00 BE79554	0.0E+00	0.0E+00	0.0E+00 Z32684.2	0.0E+00	0.0E+00 BE91037	0.0E+00	0.0E+00	0.0E+00	0.0E+00 U93239.1	0.0E+00	0.0E+00	0.0E+00 BE9/331	0.0E+00 BE53692	0.0E+00 AU14327	0.0E+00 AU14327	0.0E+00 BE29289	0.0E+00 BE29289	0.0E+00 BF223041	0.0E+00	0.0E+00 B
	Expression Signal	2.28	0.98	3.95	0.87	0.87	227	2.66	3.45	208	2.35	16.13	1.18	1.8	2.25	5.57	1.99	1.96	55.78	1.14	3.21	1.64	4.39	79.0	127	3.8	3.8	1.19	1.19	0.99	7.65	1.05
	ORF SEQ ID NO:	22172		22185	22188				20222	22220		22233		22234	22236		22239	22240	22241	22242	22243	22249	22233	22259	22267	22274	22275	22276	22277	22278	22280	22304
1	Exon SEQ ID NO:	12276	12279	12287	12291		_1	12305	12307	12321	12334	12339	11792	12340	12343	12345	12347	12348	12349	12350	12351	12357	12301	12363	12379	12383	12383	12384	12384	12385	12388	12414
	Probe SEQ ID NO:	2398	2402	2410	2414	2414	2419	2428	7777	2444	2457	2462	2463	2464	2467	2469	2471	2472	2473	2474	2475	2481	2486	2488	2504	2509	2509	2510	2510	2511	2514	2540

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Table 4
Single Exon Probes Expressed in Heart

	Т	Г	_	_	Ι	г	г	ī	Т	Т	Т	Т		Т	_		m	T	Т,	Ή.	1-1	" -:	13 ,	Г	111	1-41-	T	11	, - 	71-47
Top Hit Descriptor	Homo sapiens mRNA for KIAA1415 protein, partial cds	Homo sapiens mRNA for KIAA1415 protein, partial cds	UI-H-BW1-amp-f-12-0-UI.s1 NCI_CGAP_Sub7 Homo saplens cDNA clone IMAGE:3070631 3'	602152653F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293612 5	601279873F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3621786 5	Homo saplens mRNA for KIAA1321 protein, partial cds	tn19b08.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb:L20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN);	Homo saplens TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD (TAF2I) mRNA	Homo sapiens mRNA for KIAA1438 protein, partial cds	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5	601584930F1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:3939222 57	Homo sapiens IMP (Inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1	Homo sapiens mRNA for KIAA0536 protein, partial cds	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'	Human bullous pemphigoid antigen (BPAG1) mRNA, complete cds	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'	RC1-OT0086-220300-011-d07 OT0086 Homo sapiens cDNA	7h15h05.x1 NCL_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316089 3'	301298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'	Homo sapiens hypothetical protein FLJ11052 (FLJ11052), mRNA	EST188414 HCC cell line (matastasis to liver in mouse) II Homo saplens cDNA 5' end similar to ribosomal protein L29	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943591 5'	Human beta-prime-adaptin (BAM22) gene, exon 5
Top Hit Database Source	IN	H	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	TN	본	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	TN	TN	NT	NT	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	NT
Top Hit Acession No.	-	*-	1	F672818.1	_	_	J571737.1	5032150 NT	١.	_	E795445.1	E293328.1	+	4504686 NT	4507720 NT	178027.1	_	B011108.1	1	A69225.1	.1	JU130403.1	0.0E+00 AW887015.1	3F000018.1	SE383165.1	3E531263.1	322843	A316723.1	_	
Most Similar (Top) Hit BLAST E Value	0.0E+00 AB037836.	0.0E+00 AB037836	0.0E+00 BF513835.	0.0E+00 BF672818.	0.0E+00 BE616695.	0.0E+00 AB037742.	0.0E+00 AI571737.1	0.0E+00	0.0E+00 AB037859.	0.0E+00 BE795445.	0.0E+00 BE795445.	0.0E+00 BE293328.	0.0E+00 BE792472.	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF173227	0.0E+00 AB011108.	0.0E+00 AU133385	0.0E+00 M69225.1	0.0E+00 AU130403	0.0E+00 AU130403	0.0E+00 ∤	0.0E+00 BF000018.	0.0E+00 E	0.0E+00 BE531263.	0.0E+00	0.0E+00 AA316723.	0.0E+00	0.0E+00 U36253.1
Expression Signal	2.37	2.37	3.85	2.8	1.16	1.34	0.97	227	5.78	1.03	1.03	1.1	10.42	2.46	7.02	1.09	5.19	1.17	96.0	1.41	1.21	121	1.29	1	3.25	2.74	1.74	8.72	0.88	3.59
ORF SEQ ID NO:	22318	22319		22325		22332	22333	22334				22339		22358	22365		22369	22370	22373	22374	22376	22377	22380	22385	22386		22413		· ·	22452
SEQ ID NO:	12654	12654	12426	12432	12434	12440	12441	12442	12444	12445	12445	12448	12456	12465	12727	12476	12477	12481	12484	12485	12487	12487	12490	12494	12495	12496	12523	12555	12556	12562
Probe SEQ ID NO:	2553	2553	2554	2560	2562	2569	2570	2571	2573	2574	2574	2577	2585	2595	2601	2608	2609	2613	2616	2617	2619	2619	2622	2626	2627	2628	2656	2690	2691	2698

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	_	_		_	1	_	_	_	_	-	_		-	-		_	_	_		1100	Щ.		<u>.</u>	┰	-	182	-11-	الإيرا	.,,,	-101	4		<u> </u>
Top Hit Descriptor	Homo sapiens neuregulin 1 (NRG1), transcript variant SMDF, mRNA	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	601591991F1 NIH_MGC_7 Homo saplens cDNA done IMAGE:3945983 5'	602155923F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4297132 5'	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639564 5'	AV721647 HTB Homo saplens cDNA clone HTBBYE09 5'	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds	AV651066 GLC Homo sapiens cDNA clone GLCCLD07 3'	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA	601580903F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929472 5'	RC4-HT0587-170300-012-d11 HT0587 Homo sapiens cDNA	Homo sapiens chromosome 21 segment HS21C001	UI-H-BW1-amw-e-07-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340 3'	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	AV725534 HTC Homo sapiens cDNA clone HTCCCA03 6'	AV725534 HTC Homo saplens cDNA clone HTCCCA03 5'	au55d04.y1 Schneider fetal brain 00004 Homo sepiens cDNA clone IMAGE:2818663 5' similar to SW:R13A HUMAN P40429 60S RIBOSOMAL PROTEIN 1.13A	602071957F1 NCI_CGAP_Brn67 Homo saplens cDNA clone IMAGE:4214679 5'	601450912F1 NIH_MGC_65 Hamo sapiens cDNA clone IMAGE:3854642 5'	AU131494 NT2RP3 Hamo sapiens cDNA clone NT2RP3002672 5'	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002672 5'	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 57	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806 5'	glycoprotein D=Duffy group antigen [human, blocd, Genomic DNA, 3068 nt]
Top Hit Database Source	TN	님	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	ĮN	ΝΤ	TN	NT	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	TN.	NT	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	NT	EST_HUMAN		EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT
Top Hit Acession No.	7669517 NT	AF110763.1		3F680632.1	BE563433.1		5174486 NT	5174486 NT	8923441 NT	8923441 NT	0.0E+00 AF290195.1	0.0E+00 AV651066.1	3F377897.1	BF377897.1	47,57963 NT	4757963 NT	3E747193.1	3E176836.1 .	AL163201,2		4503098 NT	3F677694.1	7427522 NT	4V725534.1	4V725534.1	41879163.1	3F530661.1	0.0E+00 BE872768.1	0.0E+00 AU131494.1	0.0E+00 AU131494.1	3E300344.1	0.0E+00 BE300344.1	576830.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 AF11076	0.0E+00 BE79637	0.0E+00 BF68063	0.0E+00 BE56343	0.0E+00 AV72164	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BF37789	0.0E+00 BF37789	0.0E+00	0.0E+00	0.0E+00 BE74719	0.0E+00 BE17683	0.0E+00 AL16320	0.0E+00 BF51411	0.0E+00	0.0E+00 BF67769	0.0E+00	0.0E+00 AV72553	0.0E+00 AV72553	0.0E+00 AI879163	0.0E+00 BF53066	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 S76830.1
Expression Signal	1.08	10.23	10.37	3.2	13.51	1.28	2.17	2.17	6.0	6.0	22	15.67	1.72	1.72	3.21	3.21	2.2	76.0	1.3	3.47	1.07	4.95	1.73	9.56	9.56	11.15	1.97	2.91	1.11	1.11	10.1	10.1	4.6
ORF SEQ ID NO:	22454	22455	22462	22463	22467						22474				22479	22480	22485			22498					22516		22521	22522	22523				19966
Exon SEQ ID NO:	12564	12565		12572									12581	12581		12585	12589		12603		12610	12616	12620	12623	12623	12625	12628	12629	12631				10151
Probe SEQ ID NO:	2700	2701	2708	2709	2712	2713	2715	2715	2716	2716	2717	2718	2719	2719	2723	2723	2727	2730	2741	2742	2748	2754	2758	2761	2761	2763	2766	2767	2769	2769	2770	2770	27.75

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oingle Exon Probes Expressed in Heart	Top Hit Descriptor	Homo sapiens BTRCP2 mBNA for F-hnx and W/D-reneate modelin londown.	Homo saplens ALR-like protein mRNA, partial cds	Homo sapiens ALR-like protein mRNA, partial cds	Homo septens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA	Homo sapiens cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYD1R1) mBNA	H. sepiens serine hydroxymethyltransferase near downs	Homo saciens 5-aminolavulinata synthese 27/41 AS3) mms	Homo sapiens mRNA for KIAA1527 brotein, bartial cds	Homo sapiens partial rpt3 gene for ribosomal protein L3, U82 snoRNA, U83a snoRNA and U83b snoRNA genes	Homo sabiens chromosome 21 segment HS21Ch04	Human AHNAK nucleoprotein mRNA K'end	PM0-HT0342-281309-003-003-HT0343-U	PM0-HT0343-281299-103-e02 HT0343 Home content of this	H. sabiens Id3 gene for HI H two transcription factor	Homo sapiens chromosome 21 segment HS21 Chas	Human transglutaminase mRNA, complete ods	Homo sapiens dammine-cytoplasmic actin (A CTCD2) providence	Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogane	Novel human mRNA from chromosome 1 which has similarities to BATT	H.sapiens mRNA for nuclear DNA helicase II	Homo sapiens protocadherin alpha C1 (PCDH-alpha-C1) mRNA complete calc	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (FEF141) mena	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF141) mRNA	Homo sapiens serine/threonine kinase 9 (STK9) mRNA	DKFZp586G0621_r1 586 (synonym: huter) Home seniens cDNA clane DKEZ-E86Coco.	Homo sapiens KIAA0054 gene product: Helicase (KIAAnnsa) mBNA	Homo sapiens KIAA0054 gene product Helicase (KIAA0054) mBNA	Homo sapiens chondroffin suffate proteonly as 4 (melangman annotation) (2000 1)	QV2-BT0636-130400-138-h03 BT0636 Homo capiens CONA	QV2-BT0636-130400-138-h03 BT0636 Homo sanians CDNA		
action Prop	Top Hit Database Source	F								IN IN			T HIMAN	Т	Т						NT TN	TN				EST_HUMAN D				T HUMAN	Т	IN TN	1
	Top Hit Acession No.	AB033281:1		0.0E+00 AF264750.1	4503202 NT	TNIC020320		T		0.0E+00 AJ238852.1	1.2		1		Γ	27				7.1		3.1	4503470 NT	4503470 NT	4507280 NT	1.1	7661883 NT	7661883 NT	4503098 NT			2	
	Most Similar (Top) Hit BLAST E Value	0.0E+00 AB03328	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X85980.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL16320	0.0E+00 M80902.1	0.0E+00	0.0E+00	0.0E+00 X73428.1	0.0E+00	0.0E+00 M98478.	0.0E+00 D50657.1	0.0E+00 D50657.1	0.0E+00	0.0E+00 Y10658.1	0.0E+00 AF15230;	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL047599	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BE081896	0.0E+00	0.0E+00 AL163206	
	Expression Signal	1.94	1.37	1.37	3.58	3.58	2.39	127	1.1	1.07	2.24	5.94	1.58	1.58	1.38	2.84	2.58	43.46	43.46	1.34	4.62	0.96	25.08	25.08	2.42	1.35	1.25	1.25	3.42	4.95	4.95	1.64	
	ORF SEQ ID NO:		20479		20784	20785	22534				22538	22541	22543	22544			22547	22551	22552	22555			22556	22557	22568	22572	22573	22574		22576	22577	22588	
	Exon SEQ ID NO:			10649	10941	10941	12735	12736	12738	12743	12744	12748	12751	12751	12753	12755	12757	12761	12761	12765	12766	12767	12768	12768	12779	12782	12783	12783	12784	12786	12786	12794	
	Probe SEQ ID NO:	2778	2784	2784	2789	2789	2805	2806	2808	2814	2815	2819	2822	2822	2824	2826	2828	2833	2833	2837	2838	2839	2840	2840	2851	2854	2822	2825	2856	2858	2858	2866	

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Table 4
Single Exon Probes Expressed in Heart

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	Town List Constitution	I OP HIT Descriptor	Homo saplens chromosome 21 segment HS21C006	z/96b11.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:683517 3' similar to contains Alu	repetitive element;	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9	Homo saplens EphA4 (EPHA4) mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	h18d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247 F44E7.2 PROTEIN .:	th/18d07.xf NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:016247	UI024/ F44E.2.PRUIEIN.;	ZING FINGER PROTEIN 13Z	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds	Homo sapiens mRNA for KIAA1267 protein, partial cds	Homo sapiens mRNA for KIAA1267 protein, partial ods	Homo sapiens mRNA for KIAA1508 protein, partial cds	Homo sapiens mRNA for KIAA1508 protein, partial cds	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA	Homo sepiens myelold/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA	7n40d03-x1 NGI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1 Q9VLN1 CG17293 PROTEIN.	7n40d03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3567028 3' similar to TR:Q9VLN1	Homo saplens melanoma antidan family B. 4 (MAGERA), mDNA	Homo saplens melanoma antiden, family B, 4 (MACFR4), mRNA	Homo sapiens v-erb-a avian erythroblastic leukemia viral oncocene homolog-like 4 (FRRRA) mRNA	Homo sapiens v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4 (FRBB4) mRNA	Homo saplens neurezin III (NRXN3) mRNA	H.sapiens NF-H gene, exan 4	H.saplens NF-H gene, exon 4	Homo saplens Immunoglobulin-like transcript 1c variant 4'(ILT1c) gene, exon 6
	Top Hit	Source	NT		ESI_HUMAN	LΝ	INT	IN	EST HUMAN		EST HOMAN	SWISSPRUI	IN.	MT	M	N	F	F	Ę	TN	. Ł	EST_HUMAN	EST HIMAN	4505084 NT	¥	F	닏	TN	Z	NT	Į.
	Top Hit Acession	No.	AL163206.2		AA2155/9.1	Y19210.1	4758279 NT	4503470 NT	0.0E+00 AI561002.1		[2]		8.1			0.0E+00 AB040941.1	AB040941.1	7661903 NT	7661903 NT	5174574 NT	5174574 NT	0.0E+00 BF110702.1	3F110702 1	4505084	4505084 NT	4885214 NT	4885214 NT	4758827			5.1
	Most Similar (Top) Hit	BLAST E Value	0.0E+00 AL16320	20.0	0.0E+00/AA2155/	0.0E+00 Y19210.1	0.0E+00	0.0E+00	0.0E+00	L	0.05+00	0.05.400 1.32740	0.0E+00 AF15233	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB04094	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BF110703	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X15309.1	0.0E+00 X15309.1	0.0E+00 AF10627
	Expression	Signal	1.64	7	80.F	3.09	1.16	18.66	1.25	Š	1.60	10.1	1.0	1.34	1.34	4.98	4.98	2.66	2.66	3.23	3.23	1.27	1.27	2.03	203	0.94	0.94	1.6	1.3	1.3	7.93
	ORF SEQ	Ö NÖ:	22589		06627	J		22600	22601		22602				j		22620	22623	22624	22625	22626	22630	22631	22642	22643	22645	22646	22651	22654	22655	22657
	Exan SEO ID	NO:	12794					12805	12806	12806	L	2007	60871	12824		_	12825	12828	12828	12829	12829	12833	12833	12842	12842	12844	12844	12851	12854	12854	12856
	Probe SEQ ID	NO.	2866	7900	Ì	2874	2877	2878	2879	2870	2884	2000	7007	2897	2897	2898	2898	2901	2901	2902	2902	2907	2907	2915	2915	2917	2917	2924	2927	2927	2929

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Single Exon Probes Expressed in Heart

1		_	Т	Т-	_	_	_	Т	1	т-	_	т-	_	_	_	т-	_	_		_	jr-	4		1 10	-4		1	Τ-	यक्तम वही	, , ,	11.	n n	Date in the
	Top Hit Descriptor	qf43f09.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced	Homo sapiens neuropilin 2 (NRP2) gene, complete cds, alternatively spliced	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA	Homo sapiens mRNA for PKU-alpha, partial cds	Homo sapiens KIAA0737 gene product (KIAA0737), mRNA	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA	Homo sapiens chromosome 21 segment HS21C046	Human displacement protein (CCAAT) mRNA	Homo sapiens semenogelin I (SEMG1) mRNA	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA	Isoform 2 of a novel human mRNA from chromosome 22	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein. T54 protein.	JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes,	complete cds; and L-type calcium channel a>	Homo sapiens interleukin 2 receptor, beta (IL2RB) mRNA	Human germilne gene 16.1 for ig lambda L-chain C region (igL-C16.1)	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds	Homo saplens SWI-SNF complex protein p270 mRNA, partiál cds	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA	Homo sapiens olfactory receptor-like protein (OLFR 428) gene, OLFR 428-9110 allele, partial cds	Homo sapiens potassium voltage-gated channel, Shab-related subfamily. member 1 (KCNB1) mRNA	Human ferritin heavy chain mRNA, complete cds	Homo saplens mRNA for KIAA0549 protein, partial cds	Homo sapiens mRNA for KIAA0549 protein, partial cds	ye32f03.s1 Stratagene lung (#937210) Homo sepiens cDNA clone IMAGE:119453 3' similar to SP:S29539 S29539 BASIC PROTEIN, 23K - ;
שונים באמוניו ומד	Top Hit Database Source	EST_HUMAN	NT	LN	LN	LΝ	TN	TN	LN LN	NT	NT	TN	TN	NT	N _T	TN	TN			IN	NT	NT	LN.	NT	NT	NT	NT	NT	NT	NT	NT	TN	EST_HUMAN
	Top Hit Acession No.	0.0E+00 AI149880.1	0.0E+00 AF281074.1	0.0E+00 AF281074.1	4506118 NT	0.0E+00 AB004884.1	7662273 NT	5729755 NT	5729755	0.0E+00 AL163246.2		4506882 NT	0.0E+00 AF195953.1	5579469 NT	5579469 NT	0.0E+00 AL359403.1	0.0E+00 AF017433.1			0.0E+00 AF196779.1	4504664 NT		.1	0.0E+00 AF064589.1	1	0.0E+00 AF149773.1	7662139 NT	0.0E+00 AF042075.1	4826783 NT		1	1	194870.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			0.0E+00/	0.0E+00	0.0E+00 X03529.1	0.0E+00 AF199355	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 L20941.1	0.0E+00 AB011121	0.0E+00 AB011121	0.0E+00 T94870.1
	Expression Signal	1.13	0.84	0.84	76.0	2.15	1.33	1.59	1.59	0.89	1.04	0.82	4.85	7.86	7.86	5.08	202			1.74	0.99	2.79	1.85	1.89	2.85	3.97	4.21	1.64	3.45	19.64	1.79	1.79	9.41
	ORF SEQ ID NO:		22677	22678	22679	22680			22691			22721		22730	22731		22735				22739						22791		22824			22837	22845
	Exon SEQ ID NO:	12870	12879	12879	12880	12881			12892					12937	12937	12939	12942			12945	12947	12966	12970	12974	12995			13002	13028		13040	13040	13048
	Probe SEQ ID NO:	2943	2922	2922	2953	2954	2964	2965	2965	2990	2992	3001	3006	3009	3009	3011	3014			3017	3019	3038	3043	3047	3068	3069	3074	3075	3102	3111	3115	3115	3123

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Г		т-	Т	Т	Т	Т	Т	т-	1	Т	T	Τ-	т-	Т	т	_	_	т-	T		Ϋ,	14,-	14		1	1-	T-4	T-4	ببنا	۳.	
	Top Hit Descriptor	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA	Homo saplens pyrin (MEFV) gene, complete cds	Homo sapiens mRNA for KIAA1507 protein, partial cds	601464995F1 NIH_MGC_67 Homo sepiens cDNA clone IMAGE:3868246 5'	AU123664 NT2RM2 Homo saplens cDNA clone NT2RM2000735 5'	Homo sapiens offactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA	Homo sapiens offactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA	Homo sapiens T-type calcium channel alpha1 subunit Alpha1I-a isoform (CACNA1I) mRNA, complete cds	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo sapiens KIAA0952 protein (KIAA0952), mRNA	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA	Homo saplens leukocyte Immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds	Homo sapiens death receptor 6 (DR6), mRNA	Homo sapiens mRNA for rapa-2 (rapa gene)	Homo sapiens mRNA for rapa-2 (rapa gene)	Bacterlophage P1 replication region including repA, parA, and parB genes and incA, incB, and incC incompatibility determinants	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPRT), mRNA	wp14d10.x1 NCI_CGAP_Lu19 Homo sepiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634 NEURAL CELL ADHESION MOLECULE.;	wp14d10x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:073634 073634	NEURAL CELL ADHESION MOLECULE;	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA	Human endogenous retrovirus HERV-K10	Human MDS1A (AML1/MDS1 fusion) mRNA, partial cds	Homo sapiens hypothetical protein (AF038169), mRNA	Homo sapiens hypothetical protein (AF038169), mRNA
	Top Hit Database Source	NT	TN	NT	N	EST_HUMAN	EST_HUMAN	N.	NT	NT	. LN	NT	N	N.	L	TN	k	N	K	TN	N	EST_HUMAN		EST HUMAN	NT	NT	TN	NT	NT	TN	NT
	Top Hit Acesslon No.	4502582	4502582 NT	_	1	3E779039.1	1	7363436 NT	7363436 NT	7706239 NT	0.0E+00 AF211189.1	7662401 NT	7662401 NT	4502398 NT	5803067 NT	0.0E+00 AF110763.1	7657038 NT				7427522	0.0E+00 A1935159.1				6552332 NT	555332		143293.1	9558718 NT	9558718
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00 AF111163.	0.0E+00 AB040940.	0.0E+00 BE779039	0.0E+00 AU123664	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AJ277276.	0.0E+00 AJ277276.	0.0E+00 k	0.0E+00	0.0E+00		0.0E+00 Al935159.1	0.0E+00 AJZ78120.1	0.0E+00	0.0E+00	0.0E+00 M14123.1	0.0E+00 U43293.1	0.0E+00	0.0E+00
	Expression Signal	1.01	1.01	11.07	98'0	0.99	3.01	1.66	1.66	1.43	0.39	1.35	1.35	96.0	1.71	6.04	2.08	1.53	1.53	5.53	1.21	3.68		3.68	2.67	2.86	2.86	1.14	6.18	1.01	1.01
	ORF SEQ ID NO:	23015	23016	23019	23021	23026	23073	23076	23077	23079	23080	23094	23095	23096	23098	22455	23111	23115	23116	23118	23120	23126		23127	23132	23141	23142	23148	23153	23157	23158
	Exan SEQ ID NO:	13214	13214	13218	13220	13224	13270	13276	13276	13279	13280	13295	13295	13296	13299	12565	13312	13315	13315	13317	13319	13326		13326	13330	13337	13337	13343	13348	13353	13353
_	Probe SEQ ID NO:	3292	292	3296	86	3303	3350	3357	3357	3360	3361	3377	3377	3378	3381	8	3395	86	86	3400	3402	3409		349	3413	3429	3420	3426	3431	ဗ္ဗ	98

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Probe SEQ ID NO: 3440 3440 3446 3455 3455 3461 3461 3461 3461 3461 3461 3461 3461				Most Similar (Top) Hit BLAST E Value O.0E+00 O	Top Hit Acession No. No. AF045452.1 AF045452.1 AF045452.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AA625677.1 AE70868.1 AL133204.1 AE07868.1 AL133204.1 AE07868.1 AE133204.1 AE26663.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1 AW664693.1	Top Hit Database Source NT NT NT EST_HUMAN EST_HUMAN NT EST_HUMAN NT NT NT NT EST_HUMAN NT NT NT NT EST_HUMAN NT NT NT NT NT NT EST_HUMAN NT NT NT NT NT NT NT NT NT NT NT NT NT	Top Hit Descriptor Homo saplens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds Homo saplens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds Homo saplens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds Homo saplens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds Homo saplens chromosome 21 unknown mRNA ab51f12.r1 Stratagene lung carcinoma 837218 Homo saplens cDNA clone IMAGE:844367 5 ab51f12.r1 Stratagene lung carcinoma 837218 Homo saplens cDNA clone IMAGE:3051373 5 db51f12.r1 Stratagene lung carcinoma 837218 Homo saplens cDNA clone IMAGE:3051373 5 db51f12.r1 Stratagene lung carcinoma 837218 Homo saplens cDNA clone IMAGE:3051373 5 Homo saplens zinc finger protein 45 (a Kruppel-associated box (KRAB) domain polypeptide) (ZNF46) mRNA db11438557 NIH_MGC_15 Homo saplens cDNA clone IMAGE:3051373 5 Homo saplens proteins in Visit and CA-1), complete retroviral segment Homo saplens semenogolin II (SEMC2) mRNA Homo saplens semenogolin II (SEMC2) mRNA Homo saplens mRNA for KIAA1476 protein, partial cds ov77c11.x1 Soares_NHMRPu_S1 Homo saplens cDNA clone IMAGE:1062358 3's similar to WP:11984, t Homo saplens butyophilin, subfamily 3, member A3 (BTN3A3), mRNA Homo saplens butyophilin, subfamily 3, member A3 (BTN3A3), mRNA Homo saplens retiroblastoma-binding protein 2 (RBBP2) mRNA Homo saplens retiroblastoma-binding protein 2 (RBBP2) mRNA Homo saplens settroblastoma-binding protein 2 (RBBP2) mRNA Homo saplens hepran sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens bytans sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens settroblastoma-binding protein 2 (RBBP2) mRNA Homo saplens bytans sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens parans sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens parans sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens parans sulfile (glucosamine) 3-0-sitiforansferse 1 (HS32T1) mRNA Homo saplens paran
3578 3578	13492	23282	0.79	0.0E+00 0.0E+00	4557752 NT 4557752 NT	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MiD1) mRNA Homo sapiens midline 1 (Opitz/BBB syndrome) (MiD1) mRNA
3596 3600 3616	13510 13514 13530	23297	1.51 28.67 4.26	0.0E+00	0.0E+00 D87327.1 NT 0.0E+00 769491 NT 0.0E+00 AB026542 1 NT	TN TN	Homo sepiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds Homo sepiens glyceraldehyde-sphosphate dehydrogenase (GAPD), mRNA Homo sepiens WAVE2 mRNA for WASD formit proteins.
		1	1	V.VL . VV		2	Total Suprems WAVEZ mixiva for WASP-family protein, complete cds

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Top Hit Descriptor	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds	Homo saplens SH2-containing protein Nsp2 mRNA, complete cds	NHTBCaef5g09ff Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09	NHTBCae15g09f1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae15g09	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens chromosome 21 segment HS21C004	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA	Homo sapiens mRNA for KIAA0796 protein, partial cds	UI-H-BW0-ajs-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'	UI-H-BW0-ajs-e-12-0-UI.s1 NCI_CGAP_Sub6 Homo saplens cDNA clone IMAGE:2733022 3'	Human gene for Type XIX collagen at chain, exon 6	as06g01.r1 Scares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:812496 5' similar to SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4, [1];	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens mRNA for KIAA1414 protein, partial cds	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens ribosomal protein S2 (RPS2) mRNA	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA	Homo sapiens v-ets avian erythroblastosis virus E28 oncogene related (ERG), mRNA	Homo sapiens soluble neuropilin-1 mRNA, complete cds	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds	Pan troglodytes olfactory receptor (PTR208) gene, partial cds	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo saplens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA	Homo sapiens smooth muscle myosin heavy chain SM1 mRNA, alternatively spliced, partial cds	Mus musculus junctophilin 1 (Jp1-pending), mRNA	te62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA done IMAGE:2091307 3'	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA	Homo sapiens ATP-sensitive Inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
 Top Hit Database Source	INT	INT	EST_HUMAN	EST_HUMAN	¥	N	NT	N	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	닏	N	TN	NT	NT	TN	NT	· TN	NT	INT	INT	TN	TN	EST_HUMAN	TN	NT	TN	IN
Top Hit Acession No.	0.0E+00 AF124250.1	0.0E+00 AF124250.1	0.0E+00 AA852743.1	0.0E+00 AA852743.1	0.0E+00 AL163204.2	AL163204.2	5729928 NT	AB018339.1	AW298134.1	AW298134.1	0.0E+00 AB004630.1	0.0E+00 AA463659.1	7657468 NT	AB037835.1		4506718 NT	7657065 NT	7657065 NT	AF145712.1	0.0E+00 AF195658.1	0.0E+00 AF179733.1	7657468 NT	7657468 NT	0.0E+00 AF020091.1	10181139 NT	0.0E+00 Al377699.1	0.0E+00 AF152496.1	4758199 NT	S78685.1	7710148 NT
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL16320	0.0E+00	0.0E+00 AB01833	0.0E+00 AW2981	0.0E+00 AW 2981	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB03783	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF14571	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 S78685.	0.0E+00
Expression Signal	3.26	3.26	1.5	1.5	22	2.2	1.79	1.25	3.53	3.53	0.99	1.03	3.35	0.91	3.88	7.88	1.02	1.02	1.13	1.01	23	1.69	1.69	1.45	1.1	1.1	1.7	4.46	11.67	2
ORF SEQ ID NO:	23318		23323	23324	23326		23331		23344	23345	53369	23370	23377	23387		23399	23401	23402	23441		23442	23446		23448		23455		23456	23458	23459
Exen SEQ ID NO:	13533	13533	13537	13537	13540	13540	13544	13546	13559	13559	13582	13583	13591	13600	13613	13615	13618	13618	13659	13660	13661	13664		13665	13669	13671	13672	13673	13676	13677
Probe SEQ ID NO:	3619	3619	3623	3623	3626	3626	3630	3632	3645	3645	3668	6998	3677	3687	3699	3701	3705	3705	3746	3747	3748	3751	3751	3752	3756	3758	3759	3760	3763	3764

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oligie Exoli Flores Explessed III near	Top Hit Descriptor	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA	Homo sapiens myosin light chain kinasa isoform 2 (MICX) mRNA complete color	Homo saplens myosin light chain kinasa isoform 2 (MI CK) mRNA complete cas	Homo sapiens 5-hydroxydropamine (serotonin) recentor 4D (HTR4D) mBNA	Homo sapiens chromosome 21 segment HS21C079	Homo sapiens transient receptor potential channel 5 (TRPCS), mRNA	Homo sapiens chromosome X open reading frame 5 (CXORES) mRNA	Homo sapiens chromosome X open reading frame 5 (CXORES) mRNA	Human zinc finger protein ZNF134 mRNA, complete cds	Homo sapiens potassium voltace-cated channel Shah-ralated sultfamily mamber 1 (4/24) poly	Homo sapiens familial mental retardation protein 2 (FMR2) gans even 44	Homo sapiens SC35-interacting protein 1 (SRRP129) mRNA	Homo sapiens amphiphysin gene partial cds	W601701.xt NCI_CGP_Lym12 Honos sapies: CDNA clone IMAGE:2411085 3' similar to TR:043340	Homo sabiens ribosomal protein SA (RDSA) mBNA	DKF26434N0413 r1 434 (statement places) Home contains along place Divez-10 along pl	Homo satiens AP1 camma subjust binding analytic (AB1CDB4) DNA				Homo sapiens HBP17 heparin-binding and FGF-binding protein gene. complete cals				cDNA clone Incyte 1996726 similar to MXRA5	sion library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5	Matrix remodeling associated gene 5				
שום באטוו רוט	Top Hit Database Source	NT	NT	NT	NT	NT	NT	TN	N	NT	LN.	NT	LN	IN	EST HIMAN		EST HUMAN	L	NT	L'	LN.	NT	L	L	EST_HUMAN	EST_HUMAN		ESI HUMAN	IN	EST_HUMAN	EST HUMAN	EST_HUMAN
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	Exprassion Signal	2.39	1.31	1.31	1.97	1.61	1.12	5.67	5.67	3.93	1.63	0.99	1.87	0.82	2.54	6.08	1.41	-	7-	2.45	1.8	0.87	1.27	1.62	1.75	1.4	;	* !	1.78	3.2	1.27	0.97
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	Probe SEQ ID NO:	3765	3768	3768	3769	3773	3775	3780	3780	3782	3784	3787	3788	3790	3799	3802	3807	3813	3813	3815	3816	3820	3830	3833	3840	3842	3842	2000	2 to	2823	3854	3860

Page 386 of 413 Table 4 Single Exon Probes Expressed in

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 | phosphoribosylaminoimidazole synthetase (GART) mRNA | Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA | Homo sapiens mRNA for KIAA0287 gene, partial cds

 | Homo sapiens ras GTPase activating protein-like (NGAP) mRNA | Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA | Novel human mRNA from chromosome 1, which has similarities to BAT2 genes | Homo saplens DGCR8 (DGCR8) mRNA, complete cds | Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds | Homo saplens protein kinase, X-linked (PRKX) mRNA
 | Homo sapiens protein kinase, X-linked (PRKX) mRNA | Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA | Homo sapiens GA-binding protein transcription factor, sinha subjunit (600) (CABBA)BA | Homo sapiens GA-binding protein transcription factor glabs subjunit /GDD () (245) | Homo sapiens hypothetical protein Fl. 140370 (Fl. 140370) DAIA | Homo sapiens hymothetical protein El 140270/El 140270
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Table 4
Single Exon Probes Expressed in Heart

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| . Top Hit Descriptor | MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA | MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA

 | 601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5' | Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamytransferase) (TGM3) mRNA | Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA | ba5164.xt NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:THI2_BOVIN 095108 MITOCHONDRIAL THIOREDOXIN PRECI IRSOR | UI-HF-BM0-adx-c-02-0-UI-r1 NIH MGC 38 Home saniens cDNA clane IMA/2F-3083447 s' | Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA

 | Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA | Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA | zu68h07.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element.contains element MER35 repetitive element. | zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element contains element MER25 parefittue element contains element mercantimes element. | Homo sapiens titin (TTN) mRNA
 | Homo sapiens titin (TTN) mRNA | Homo sapiens semenogelin I (SEMGI) mRNA | Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA | Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA | Homo sapiens chromosome 21 segment HS21C103 | Homo sapiens mRNA for olfactory receptor protein, pseudogene | Human apolipoprotein B-100 mRNA, complete cds
 | PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA | Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA | Homo saplens myelodysplasia syndrome 1 (MDS1) mRNA
 | Homo sapiens F-box protein Fbl4 (FBL4) mRNA, partial cds | qd23f06.x1 Soares_placenta_sto9weeks_2NbHP8to9W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20 b2 MFR20 renefitive element. | Human CBFA3 (Obra3) gene, partial cds
 | Homo sapiens proprotein convertase subtilisin/kexin type 2 (PCSK2) mRNA | Homo sapiens protein kinase C, nu (PRKCN), mRNA |
| Top Hit Database | EST HUMAN | EST_HUMAN

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 | EST_HUMAN | TN | NT
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LN | N L |
| Top Hit Acession
No. | BE184856.1 | BE184856.1

 | BE274217.1 | 4507476 | 5729725 | AW675599.1 | AW408788.1 |

 | 8922466 | 5174632 | AA401438.1 | AA401438.1 | 4507720
 | 4507720 | 4506882 | 4758199 | 4758199 | | |
 | | 4826827 | 4826827
 | | |
 | | 6563384 NT |
| Most Similar
(Top) Hit
BLAST E
Value | 0.0E+00 | 0.0E+00

 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00. | 0.0E+00 | 0.0E+00

 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00/ | 0.0E+00/ |
 | | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00/ | 0.0E+00
 | 0.0E+00 | 0.0E+00 |
| Expression
Signal | 0.88 | 0.88

 | 1.99 | 0.97 | 1.98 | 6.19 | 1.52 | 1.33

 | 1.33 | 1.96 | 7.82 | 7.82 | 3.79
 | 3.79 | 0.87 | 8.21 | 8.21 | 0.88 | 1.13 | 7.84
 | 0.95 | 0.88 | 0.88
 | 5.73 | 1.92 | 4.09
 | 0.98 | 0.87 |
| ORF SEQ
ID NO: | |

 | | 23733 | 23734 | | 23748 | 23751

 | 23752 | | 23775 | 23776 | 23791
 | 23792 | 23801 | 23803 | 23804 | | 23837 | 23851
 | 23868 | 23876 | 23877
 | 23879 | |
 | 23897 | 23904 |
| Exan
SEQ ID
NO: | |

 | 13950 | 13957 | 13958 | 13966 | 13971 | 13973

 | 13973 | 13983 | 13998 | 13998 | 14013
 | 14013 | 14026 | 14030 | 14030 | 14037 | 14083 | 14076
 | 14090 | 14098 | 14096
 | 14098 | 14105 | 14108
 | 14122 | 14128 |
| Probe
SEQ ID
NO: | 4044 | 4044

 | 4048 | 4055 | 4056 | 4064 | 4069 | 4071

 | 4071 | 4081 | 4098 | 4098 | 4113
 | 4113 | 4126 | 4130 | 4130 | 4137 | 4163 | 4176
 | 4190 | 4196 | 4196
 | 4198 | 4206 | 4210
 | 4224 | 4230 |
| | Exan ORF SEQ Expression (Top) Hit Top Hit Acession Signal No. Signal Vatue Source | Exan ORF SEQ ID ID NO: Expression Signal (Top) Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Top Hit Acession No: Detabase Source Source Source Source No: Source Source No: Source No: Source No: Source No: No: </td <td>Exon ORF SEQ ID ID NO: Expression Signal (Top) Hit Acession Value Top Hit Acession No: Top Hit Acession ID No: Top Hit Acession No: Top Hit Acession ID No: Top Hit Acession No: Top Hit Acession ID No: Database Source Source Source Source Source No: Source No: Source No: Percentage Percentage<</td> <td>Exon
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Page 388 of 413 Table 4 Single Exon Probes Expressed in Heart

Heart	Top Hit Descriptor	Homo sapiens protein kinase C, nu (PRKCN), mRNA	RNA, partial cds	RNA, partial cds	Homo sapiens COMPLEMENT COMPONENT C10 RECEPTOR (C10R), mRNA	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds	Human Ig light chain VL1 region germline (humlv1c2c) gene, partial cds	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products,		91	6)	for H4 histone	for H4 histone	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA	Homo saplens mRNA for KIAA1360 protein, partial cds	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA	Homo saplens membrane-bound aminopeptidase P (XNIPEP2) gene, complete cds	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10	gene, intron 5	xx88e08.x1 NCI_CGAP_Eso2 Homo sapiens cDNA_clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN_C009666 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN ALMAK	Homo sepiens LIM domain kinase 2 (LIMK2), transcript variant 2a. mRNA	Homo sapiens vascular endothelial cell growth factor 165 receptor/neuropilin (VEGF165) mRNA, complete	Homo caplane chromosoma 24 account LICO4 Coot	PM1-HT0305-101199-002-403 HT0305 Home senions of NA	Homo sabiens mRNA for putative ankurin-reneat containing matein (ODE4)	Homo sapiens mRNA for putative ankurin-reneat containing motein (ODE4)	Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete c.d.s.	H.sapiens pancreatic polypeptide receptor PP1 gene	Homo sapiens ATP-sensitive Inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
Single Exon Probes Expressed in Heart		o sapiens protein k	Human G2 protein mRNA, partial cds	Human G2 protein mRNA, partial cds	o sapiens COMPL!	o sapiens gap junci	an Ig light chain VI.	o sapiens plasma n	partial cds	H.sapiens HZB/h gene	H.sapiens H2B/h gene	H.sapiens H4/d gene for H4 histone	H.sapiens H4/d gene for H4 histone	o sapiens KIAA039	sapiens KIAA039	sapiens caudal ty	sapiens mRNA fo	sapiens myosin re	o sapiens membran	sapiens ACTN2 g	saplens ACTN2 g	Homo saplens HPS1 gene, intron 5	66 NEUROBLAST	sapiens LIM dom	sapiens vascular	seanlene chromoso	HT0305-101199-0	sabiens mRNA for	sapiens mRNA fo	sapiens G protein	sapiens serine-thr	iens pancreatic por	sapiens ATP-sen
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Jie Exon F	Top Hit Database Source	N	FN	N.	N	N	님		NT	NT	IN	N	N	ZI.	Z	NT	NT	FN	F	N	님	FN	EST HUMAN		ļ	FN	EST HIMAN	NT	M	4	F	NT	<u></u>
guic	Top Hit Acession No.	6563384 NT			6912281 NT	7.2								7662091 NT	7662091 NT	4885126 NT	1.1	7019456 NT	3.1	0.0E+00 AJ249765.1	0.0E+00 AJ249765.1	0.0E+00 AF200629.1	0.0E+00 AW084964.1	1619	O DE+OO AE016050 1	2	0.1		-	4758467	-		
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 U10991.	0.0E+00 U10991.	0.0E+00	0.0E+00 AF15304	0.0E+00 U03901.		0.0E+00 L14581.1	0.0E+00 Z80780.1	0.0E+00 Z80780.1	0.0E+00 X60483.1	0.0E+00 X60483.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AB03778	0.0E+00	0.0E+00 AF19595	0.0E+00 A	0.0E+00 A	0.0E+00	0.0E+00 A	0.0E+00	0.05+00	0.0F+00 AI 163207	0.0E+00 AW38157	0.0E+00 AJ278120	0.0E+00 AJ278120	0.0E+00	0.0E+00 AF10883(0.0E+00 Z66526.1	0.0E+00 S78684.1
	Expression Signal	0.87	1.17	1.17	10.2	1.15	1.59	1	5.17	2.78	2.78	1.58	1.58	8.95	8.95	10.81	0.98	1.1	5.85	8.1	8.1	1.92	40.23	1.91	1 38	7.5	1.29	1.83	1.83	3.91	2.3	1.47	1.12
	ORF SEQ ID NO:	23905	23911	23912	23917		23943		23950	23955	23956	23962	23963	23969	23970	23982	23984	24012		24025	24026		24080		24083		24087	24094	24095	24097	24098	24104	24111
	Exan SEQ ID NO:	14128	14135	14135	14144	14162	14167		- 1	14177	14177	14183	14183	14187	14187	14197	14200	14230	14238	14243	14243	14264	14296	15073	14299	14302	14304	14310	14310	14312	14313	14318	14324
	Probe SEQ ID NO:	4230	4237	4237	4245	4263	4268	, Edy	45/4	4278	4278	4284	4284	4289	4289	4299	4302	4333	4341	4346	4346	4368	4401	4403	4405	4408	4410	4416	4416	4418	4419	4424	4429

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Table 4
Single Exon Probes Expressed in Heart

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Onigo Excit todos Expressed III todat	Top Hit Descriptor	Homo sapiens pyrin (MEFV) gene, complete cds	Homo saplens pyrin (MEFV) gene, complete cds	Homo saplens zinc finger protein 195 (ZNF195), mRNA	Homo sapiens syncytin precursor, mRNA, complete cds	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds	Homo saplens zinc finger protein 211 (ZNF211), mRNA	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA	Homo saplens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA	Homo sapiens iduronate sulphate sulphatase (IDS) gene, complete cds	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA	Homo sapiens PTEN (PTEN) gene, exons 3 through 5	Homo saplens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility	complex)	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complax)	Homo sapiens DNA for amyloid precursor pmteln complete cde	70/8008 st. Stratanene felel refine 037200 Home centere CDNA class (MACE connect of	Homo sapiens odz (odd Ozlen-m. Drosophila) homolog 1 (ODZ1) mRNA	Homo sapiens chromosome 21 segment HS21C084	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds	Homo sapiens chromosome 21 segment HS21C100	Homo sapiens gene for natriuretic protein, partial cds	Homo saplens keratin 18 (KRT18) mRNA	Homo sapiens keratin 18 (KRT18) mRNA	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds	Homo sapiens inwardly-rectifying potassium channel Kir2 1 (KCN I2) years away 2 and committee and	Mus musculus E-cadherin binding protein E7 mRNA complete cds	Homo sapiens (titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
פון ווסעד פול	Top Hit Database Source	NT	Z L	TN	L	TN	LN TN	L	N	FZ	N.	N.	LN PA	NT		NT	ΤN	Z-L	EST HIMAN	NT	Z	NT	N	NT	N-	N N	NT	Į.	NT.	F	N-	F.
5	Top Hit Acession No.	0.0E+00 AF111163.1	0.0E+00 AF111163.1	5973	0.0E+00 AF208161.1	0.0E+00 AF152337.1	5454175 NT	4503470 NT	4503098 NT	4502556 NT	L35485.1	7662091 NT	7662091 NT	\F143314.1		J245418.1	8.1	-	2.1	7657410 NT	0.0E+00 AL163284.2		0.0E+00 AL163300.2	0.0E+00 AB037521.1	4557887 NT	4557887 NT	9.1	9.1	1.1	7720	4507720 NT	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF14331		0.0E+00 AJ24541	0.0E+00 AJ24541	0.0E+00 D87675	0.0E+00 AA17407	0.0E+00	0.0E+00	0.0E+00	0.0E+00 ∤	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF15381	0.0E+00 AF15381	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Y18890.1
	Expression Signal	1.95	1.95	3.08	5.37	1.92	1.36	15,15	1.47	1.58	2.78	9.78	9.78	2.04		8.67	8.67	0.84	1,5	1.55	1.22	1.71	4.37	1.89	1.91	1.91	1.3	1.3	1.18	7.43	7.43	21.96
	ORF SEQ ID NO:	24112	24113	24123					24156	24161		24163	24164	24177		24179	24180					24205	24206		24216	24217	24218	24219	24220	23791	23792	24238
	Exon SEQ ID NO:	14325	14325	15074	14338	14343	14346	14356	14367	14371	14375	14377	14377	14392		14394	14394	14404	14416	14419	14421	14422	14423	14424	14434	14434	14435	14435	14436	14013	14013	14452
	Probe SEQ ID NO:	4430	4430	4439	4444	4449	4452	4462	4473	4477	4481	4483	4483	4498		4500	4500	4511	4523	4526	4528	4529	4530	4531	4541	4541	4542	4542	4543	4554	4554	4560

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Table 4
Single Exon Probes Expressed in Heart

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA	Homo sapiens fruncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region	Homo sapiens mRNA for KIAA1399 protein, partial cds	Homo sapiens mRNA for KIAA1399 protein, partial cds	Human displacement protein (CCAAT) mRNA	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505521 67	601285246F1 NIH MGC 44 Home sapiens cDNA clone IMAGE:3607067 5"	Human AHNAK nucleoprotein mRNA, 5 end	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes. complete cds	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA	Human CYP2D7AP pseudogene for cytochrome P450 2D6	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mRNA	Homo sapiens bromodomain adjacent to zinc finger domain, 28 (BAZ2B), mRNA	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and excus 1-26	Homo sapiens proteinx0008 (AD013), mRNA	Homo sapiens proteinx0008 (AD013), mRNA	UI-H-Bi3-ajw-c-04-0-UI:s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2733294 3'	Homo sapiens aldehyde dehydrogenase 12 (ALDH12) mRNA, complete cds	Homo sapiens HSPC024-iso mRNA, complete cds		Homo sapiens glutathione S-transferase theta 2 (GSTT2) and dutathione S-transferase theta 1 (GSTT1)) mRNA complete cds			Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
le Exon Prope	Top Hit Database Source	EST_HUMAN	LN.			F			Г	EST_HUMAN	Г	EST HUMAN		- LN	LN	- LN		TN.						T_HUMAN	NT IN	NT IN	-		NT		± N	NT NT		
Buis	Top Hit Acessian No.	0.0E+00 BE081527.1	0.0E+00 AF086641.1	-	_		6453812 NT	6453812 NT			0.0E+00 BE278730.1	0.0E+00 BE390050.1				F.	7662181 NT		7304922 NT	7304922 NT	0.0E+00 AF026801.1	7019320 NT	19320	:1	7	1.1			5.1		1	1	4503766 NT	4885048
-	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00[M74099.1	0.0E+00	0.0E+00	0.0E+00(T56945.1	0.0E+00 T56945.1	0.0E+00	0.0E+00	0.0E+00 M80902.1	0.0E+00 M69197.1	0.0E+00 M69197.1	0.0E+00 AF184110	0.0E+00	0.0E+00 X58467.1	.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF303134.	0.0E+00 AF083242.	0.0E+00 M65189.1		0.0E+00 AF240785	0.0E+00 X87205.1	0.0E+00 AF084479.	0.0E+00 AF097416	0.0E+00	0.0E+00
	Expression Signal	2:32	2.01	2.65	2.65	2.55	1.82	1.82	1.03	1.03	66.0	1.11	37.36	3.14	3.14	1.12	1.34	1.54	0.95	0.95	1.09	0.92	0.92	1.78	1.11	1.8	2.04		2.83	2.79	1.3	1.47	3.51	61.82
	ORF SEQ ID NO:	24246		24257		24259		24283		19930		24267	24290	24293			24298		24319	24320	24327	24330	24331	24355	24363					24408	24410	24411	24412	24414
	Exan SEQ ID NO:	14458	14465	14470		14471	14474			10108	14475	14481		14505	14505		14509	14524		14532	ı			. 1	ı	_ [14583			-	Į			14628
	Probe SEQ ID NO:	4566	4574	4580	4580	4581	4685	4585	4586	4586	4587	4593	4614	4617	4617	4620	4621	4636	4644	4644	4652	4655	4655	4676	4681	4686	4697		4735	4737	4739	4740	4741	4743

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Single Exon Probes Expressed in Heart	Top Hit Descriptor	ZING FINGER PROTEIN 132	Homo sapiens hypothetical protein DK F7n762F1312 (DK F7n763E1312)DN n	Homo sapiens chromosome 21 segment HS21Con3	Homo saplens hypothetical protein FL J20073 (FL 120073) mRNA	Homo sapiens KIAA0187 gene product (KIAA0187) mRNA	Human Tor-C-delta gene, exons 1-4; Tor-V-delta gene, exons 1-2; T-cell receptor alpha (Tor-alpha) gene, J1- J61 segments; and Tor-C-alpha gene, exons 1-4	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-	H. satients, and 10-0-aprile gene, extens 1-4	H.saniens MeCP-2 nene	Human colladenase troe IV (C) C4) dene even 2	Homo sapiens chromosome 21 segment HS21C080	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, I, 28kD (TAF2I)	Inknyk Honne centane feur demelte liesen 1995	Hospitano MICA Accessive inpopriorent-related protein 2 (LRP2), mRNA	Homo sanjens vinc finger amtein (KIA A044.2) Data	Homo sepiens mRNA for KIAAA633 protein pertial ado	Mus musculus zino finder protein interacting with K protein 1 (75/4) mBNA	Homo sapiens meningioma expressed antigen 6 (collect-coll proline-rich) (MACEAR)	Homo sapiens desmoplakin (DPI, DPII) (DSP) mRNA	Homo sapiens gene encoding filensin, excn 8	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA	Homo sapiens mRNA for immunoglobulin kappa light chain, anti-Rhi) thered 7	Homo sapiens MHC class 1 region	Homo saplens opioid receptor, delta 1 (OPRD1) mRNA	Homo sapiens splice variant AKAP350 mRNA partial cds	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	or filth		a6(IV) collagen, exon 44 and partial cds
le Exon Pro	Top Hit Database Source	SWISSPROT	TN.	NT	N	N	Į.	F	- L	N	NT	¥	1		; 5	;	NT	 	Z-J	トラ	TN	T.	FN	TN	-	N.	1		F	 -	IN.
Sing	Top Hit Acession No.		8922180	3.2	8923080	7661979 NT						27	A COORT	TN 81051200	MT 1 NT	4585642 INT	3.1	7648	5174560 NT	4758199 NT		7705546 NT	0.0E+00 AJ010442.1	0.0E+00 AF055066.1	4505508 NT	<u>+</u>	4507720 NT	4507720 NT	-	4507720	П
	Most Similar (Top) Hit BLAST E Value	0.0E+00 P52740	0.0E+00	0.0E+00 AL16320	0.0E+00	0.0€+00	0.0E+00 M94081.	0.05+00.04084	0.0E+00 X94628.1	0.0E+00 X94628.1	0.0E+00 M55582.	0.0E+00 AL163280	1	001100	0.0F+00 X92841 4	0.0E+00	0.0E+00 AB01453	0.0E+00	0.0E+00	0.0E+00	0.0E+00 Y16723.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF091711	0.0E+00	0.0E+00	0.0E+00 AJ277892	0.0E+00	0.0E+00 D63562.1
	Expression	4.1	76.0	0.8	7.78	0.95	1.66	1.66	1.69	1.69	1.08	3.22	0	0.82	144	1.97	1.18	2.26	1.05	8.64	1.2	1.61	1.33	24.91	2.43	2.46	5.48	5.48	0.86	12.01	0.95
	ORF SEQ ID NO:	24416	24417		24424	24428	24429	24430	24432	24433	24436	24437	24447	24458	24460	24463	24464	24466	24467	24469	24471	24472		24477		24480	23791	23792	24484	24490	24493
	Exan SEQ ID NO:	14629			14637	14641	14642	14642	14644	14644	14647	14648	14660	14671	14673	14676	14677	14679	14680	14682	14684	14685	14686	14690	14692	14693	14013	14013	14697	14706	14709
	Probe SEQ ID NO:	4744	4746	4748	4752	4756	4757	4757	4759	4759	4762	4763	4778	4786	4788	4791	4792	4794	4795	4797	4799	480	4801	4806	4808	4809	4812	4812	4814	4824	4827

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בינון וסמים בעלוניסיפת ווו ופפור	Top Hit Descriptor	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallytransterase, geranyltanstransferase) (FDPS) mRNA	Homo sapiens sialytransferase 8 (alpha-N-acetylneuraminate: alpha-2,8-sialytransferase, GD3 synthase) (SIAT8) mRNA	Human mRNA for transcription factor APER6 commists cdc	Human mRNA for transcription factor ARFB6 complete cds	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete eds)	Homo sapiens chromosome 21 segment HS21C084	UI-H-BI3-gIV-f-02-0-UI st NCI CGAP Stiffs Home content of the state of	Homo sapiens hypothetical protein FL/11190 (FL/11190) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) gene, alternative splice products nertial cde	Homo saplens titin (TTN) dene aftermative entire productions partial and	Homo saplens (filin (TTN) mRNA	Human ribosomal protein 21 mBNA complete cds	601303729F1 NIH MGC 21 Homo capiens cDNA class 144ACE-262844.0 Et	Homo sapiens desmonlakin (DPI DPII) (DSP) webla	Homo satiens mRNA for KIA 410A2 meters and internal	Homo sapiens hypothetical protein El 190477 /El 190477 - Polis	Homo sapiens hypothetical protein FL/20477 (FL/20477) mBNA	Homo sapiens chromosome Xq28 melanoma antigen family A2a (MAGEA2A), melanoma antigen family A12 (MAGEA12), melanoma antigen family A12 (MAGEA12), melanoma antigen family A3 (MAGEA3), celtractin (CALT). NADIPIH dehydrogenese-life protein (NSDLI) (MACI)H dehydrogenese-life protein (NSDLI) (MACI)	Homo sapiens chromosome Xq28 metanoma antigen family A2a (MAGEA2A), metanoma antigen family A12 (MAGEA12), metanoma antigen family A2b (MAGEA12), metanoma antigen family A2b (MAGEA2B), metanoma antigen family A3 (MAGEA3), celtractin	(CALT), NAD(P)H dehydrogenese-like protein (NSDHL), and LI>	romo sapiens titn (i N) mKNA	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens titin (TTN) mRNA	Homo sapiens E2F transcription factor 2 (E2F2) mRNA	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3	Homo saplens chromosome 21 segment HS21C009
oi i i ioni oigi	Top Hit Database Source	LN TN	TN	N	L	Į Į	IZ.	EST HUMAN	Ί.	N.	NT	巨	N.	N	EST HUMAN	N F	TN	- L	NT	Ł		L L		L'a	F	F.	TA.		NT
	Top Hit Acession No.	4503684 NT	4506952 NT	D15050.1	D15050.1	0.0E+00 AB026898.1	0.0E+00 AL163284,2	AW452728.1	8922926 NT	4507720 NT	2.1	AF058332.1	4507720 NT	J14967.1	3E408863.1	4758199 NT	3.1	8923441	8923441 NT			E07720	02//004	4507720 NT	4507720 NT	4507720 NT	4758225 NT	0.0E+00 AF016705.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00 D15050.1	0.0E+00 D15050.1	0.0E+00	0.0E+00	0.0E+00 AW4527;	0.0E+00	0.0E+00	0.0E+00 AF05833	0.0E+00 AF05833;	0.0E+00	0.0E+00 U14967.1	0.0E+00 BE40886	0.0E+00	0.0E+00 AB02896	0.0E+00	0.0E+00	0.0E+00 U82671.2		0.0E+00 U82671.2	20.100	0.0=+00	0.01+000	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Expression Signal	1.52	1.06	1.31	1.31	0.86	1.34	1.45	12	7.99	2.81	2.81	2.95	4.34	2.58	5.37	66.0	1.66	1.66	1.06	9	7.00	202	18.0	3.61	7.76	1.17	1.35	1.33
	ORF SEQ ID NO:	24496	24105	24508	24509	24515	24530	24536	24542	24490	24544	24545	24552			24569	24574	24584	24585	24596	24507	23791	23702	28/87	24002	24603	1	24619	1
	Exan SEQ ID NO:	14713	14319	14726	14726	14734	14751	14759	14766	14706	14768	14768	14774	14777	14789	14794	14804	14817	14817	14830	14830	14013	14043	2027	2 2	14835	14843	14853	14862
	Probe SEQ ID NO:	4831	4837	4845	4845	4854	4871	4879	4885	4886	4888	4888	4894	4897	4910	4915	4925	4839	4939	4953	4053	4957	4057	4050	1909	200	8064	4978	4987

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Single Exon Probes Expressed in Heart	ORF SEQ Expression (Top) Hit Acession Database ID NO: Signal BLASTE No. Source Source	37.78 0.0E+00 D50557.1 NT Homo sapiens gammma-cytoplasmic actin (ACTGP3) pseudogene	24639 2.29 0.0E+00 AJ277892.1 NT	24640 3.02 0.0E+00 4507720 NT	24642 4.23 0.0E+00	23791 2.89	23792 2.89 0.0E+00 4507720 NT Homo saplens titin (TTN) mRNA	24660 2.43 0.0E+00 X52988.1 NT Bacillus amydoliquefaciens sacB gene for levansucrase (EC 2.4.1.10)	24681 1.84 0.0E+00 AF240635.1 NT	NT NT	5454163 NT	24698 1.22 0.0E+00 6677700 NT Homo sapiens G-protein coupled receptor (RE2), mRNA	4507720 NT	11.22	23791 14.9 0.0E+00 4507720 NT Homo sapiens titin (TTN) mRNA	23792 14.9 0.0E+00 4507720 NT Homo saplens titin (TTN) mRNA	4557362 NT	1.03 0.0E+00 M10905.1 NT	24714 1.03 0.0E+00 M10905.1 NT Human cellular fibronectin mRNA	Human hereditary haemochromatosis region, histone 2A-like protein gene, hereditary haemochromatosis (HLA-H) gene, RoRet gene, and sodium phosphate transporter (NPT3) gene, complete cds	24726 3.04 0.0E+00 4507720 NT Homo saplens titin (TTN) mRNA	23791 6.27 0.0E+00 4507720 NT Homo sapiens tilin (TTN) mRNA	23792 6.27 0.0E+00 4507720 NT Homo sapiens titin (TTN) mRNA	1.34 0.0E+00 L35475.1	1.34 0.0E+00 L35475.1	9.38 0.0E+00 4507720 NT	23792 9.38 0.0E+00 4507720 NT Homo sapiens titn (TTN) mRNA	24765 0.94 0.0E+00 AF195668.1 NT Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds	24766 1.35 0.0E+00 5360213 NT Homo sapiens glypican 3 (GPC3) mRNA	24768 0.8 0.0E+00 AE000327.1 NT Escherichia coll K-12 MG1655 section 217 of 400 of the complete genome	1.06 0.0E+00 4885474 NT	0.96 0.0E+00 . 4885474 NT	24794 1.59 0.0E+00 4758697 NT Homo saplens mannosidase, alpha, class 24, member 1 (MAN2A1), mRNA
			24639	24640	24642	23791	23792	24660	24681	24682	24686	. 24698	23791	23792	23791	23792	24708	24713	24714	24715	24726	23791	23792	24743	24744	23791	23792	24765	24766	24768	24778	24793	24794
	Exan SEQ ID NO:	14865	14875	14876		14013		14892	14909	. 14909	14912		14013		14013	14013	14935	14940	14940	14941	14950	14013					14013		14993			I	15028
	Probe SEQ ID NO:	4990	2000	5001	5003	5005	5005	5018	5037	5037	5040	5054	5055	5055	5056	5056	2065	5070	5070	5071	2080	9609	5096	5098	5098	5099	5099	5124	5126	5130	5140	5159	5162

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	Top Hit Descriptor No. Source	15703.1 NT Homo saplens toll-like receptor 8 (TLR8) mRNA, complete cds	Z	Ż	4507720 NT Homo sapiens titin (TTN) mRNA	4507720 NT Homo sapiens titin (TTN) mRNA	4507720 NT Homo sapiens titin (TTN) mRNA	3285.2 NT Homo sapiens chromosome 21 segment HS21 C085	4507720 NT Homo sapiens titin (TTN) mRNA	4507720 NT Homo sapiens titin (TTN) mRNA	4502398 NT Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA	Ā	5.1 NT	3.1 NT	6579 NT	EST_HUMAN	IN	LN	TN	N.	EST_HUMAN	MANUAL TOTAL	EST HIMAN	2.1 EST HUMAN	N	EST HUMAN	21038 NT	EST HUMAN	7.1 EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	4557364 NT Homo sapiens Bloom syndrome (BLM) mRNA
noccoldy on		Homo sapiens toll-l	Homo sapiens toll-l	Homo sapiens plac	Homo sapiens titin	Homo sapiens titin	Homo sapiens titin	Homo sapiens chro	Homo sapiens titin	Homo sapiens titin	Homo sapiens bear	Homo sapiens aco	Homo sapiens kera	Homo sapiens kera	Homo sapiens prot	RC3-GN0076-3108	Homo sapiens poly	Homo sapiens poly	H.saplens Immuno	H.sapiens immuno	7f10c06.x1 NCI_C	ht99a02 x1 NCI_CO	601589422F1 NIH	601589422F1 NIH	Homo sapiens eosi	oh68a09.y5 NCI_C HEAVY CHAIN PR	Homo sapiens Sp4	602118928F1 NIH	601061489F1 NIH	601105891F1 NIH	602071372F1 NCI	602071372F1 NCI	Homo sapiens Bloo
TOI I I IOVE OIL	Top Hit Database Source	IN	Z	N.	N	NT	IN	LN LN	¥	N	L	N-				HUMAN								T				T HUMAN	Γ	HUMAN	HUMAN	T_HUMAN	
	Top Hit Acession No.	0.0E+00 AF245703.1	0.0E+00 AF245703.1	0.0E+00 AF006061.1	4507720	4507720	4507720	AL163285.2	4507720	4507720	4502398	0.0E+00 AF093093.1	5.1	AF137286.1	9256579	0.0E+00 BE931080.1	NF182034.1	0.0E+00 AF182034.1			0.0E+00 BE675498.1	0.05.00	3F794412 1	3E794412.1	M29908.1	0.0E+00 Al791363.1	11421038	0.0E+00 BF665962.1	3E538857.1	4.1		0.0E+00 BF528328.1	4557364
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AL16328	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AF13728	0.0E+00 AF13728	0.0E+00	0.0E+00	0.0E+00 AF18203	0.0E+00	0.0E+00 X56163.1	0.0E+00 X56163.1	0.0E+00	00.00	0.0E+00 BE79441	0.0E+00 BE79441	0.0E+00 M29908.	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BE53885	0.0E+00	0.0E+00 BF52632	0.0E+00	0.0E+00
	Expression Signal	1.12	1.12	1.72	10.43	10.43	6.75	1.38	3.97	3.97	96.0	15.66	2.25	2.25	2.99	3.82	3.12	3.12	1.92	1.92	5.8		1.67	1.67	5.46	1.81	5.42	2.91	1.92	1.31	1.8	1.8	1.71
	ORF SEQ ID NO:	24797	24798	24814	23791		24816		24822	24823	24824		24830	24831	24917	24926	24930	24931	24940	24941	25032	25033			25037	25038			25052				26122
	Exon SEQ ID NO:	15031	15031	15050	14013	14013	15052	15056	15058	15058	15059	15086	15137	15137	15150	15158	15162	15162	15168	15168	15228	45000	15230	15230	15232	15234	19442	15244	15247	15253	15257	15257	15987
	Probe SEQ ID NO:	5165	5165	5186	5187	5187	5189	5193	5195	5195	5196	5208	5214	5214	5226	5234	5238	5238	5245	5245	5307	2300	2309	5309	5311	5313	5319	5324	5327	5333	5337	5337	5348

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Table 4
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zp95b11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete JI-HF-BLO-adh-d-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5 601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126815 5' Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA EST02238 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCM48 Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA Homo sapiens offactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA 602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5' 602042322F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4179988 5' Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15) Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15) 601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5' 601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5 601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5 Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds **Fop Hit Descriptor** MR0-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA HA2981 Human fetal liver cDNA library Homo sapiens cDNA MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN); Homo sapiens protocadherin beta 2 (PCDHB2), mRNA Human beta-prime-adaptin (BAM22) gene, exon 13 Homo sapiens Surf-5 and Surf-6 genes Homo sapiens Surf-5 and Surf-6 genes Mus musculus aczonin (Acz), mRNA Homo sapiens KVLQT1 gene Homo sapiens KVLQT1 gene g **EST HUMAN** EST HUMAN EST HUMAN EST HUMAN EST_HUMAN EST_HUMAN **EST HUMAN** EST_HUMAN EST HUMAN EST_HUMAN Top Hit Database **EST HUMAN EST HUMAN** HUMAN **EST HUMAN** Source EST Ę ż 11420819 NT 눋 11420819 NT 11420B19 NT 10048478 NT 11434392 Top Hit Acession 1141680 0.0E+00 AW867316.1 AW361877.1 AW361877.1 0.0E+00 AA195905.1 BF529931.1 0.0E+00 AW 405472. AW361877. 0.0E+00|AF257737.1 BF529931.1 BF313139.1 0.0E+00 BE292889.1 BE292889.1 AF064254.1 AF064254.1 0.0E+00 AJ224639.1 0.0E+00 A.J224639.1 0.0E+00 AJ006345.1 AJ006345.1 BE560082.1 AF257737. Al207616.1 0.0E+00 M85719.1 0.0E+00 D26535.1 0.0E+00 U86961.1 0.0E+00|D26535.1 U36261.1 0.00+00.0 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 BLASTE **Most Similar** (Top) Hit Value .45 3.26 2.35 2.43 5.35 5.35 3.98 6.76 3.03 3.26 3.05 3.05 2.9 29 6.69 3.67 5.74 5.74 3.26 1.5 1.58 1.31 1.31 5.74 88. 1.67 Expression Signal 25101 25114 25115 25141 25158 25159 25161 25362 25405 25406 25420 25429 25430 25435 25436 25459 25472 25473 25475 25515 25516 25517 25524 25542 25543 25544 25421 25453 ORF SEQ ÖΝΩ 15282 15305 5372 15448 15464 15473 15305 15315 15376 15376 15408 15449 15449 SEQ ID 15272 15282 15294 15308 15351 5351 15365 15365 15372 15394 15408 15408 15410 15454 15472 15341 15390 15471 Š ÿ 5352 5352 5362 5386 5386 5396 5420 5431 5444 5455 5455 5474 5489 5489 5531 5532 5532 5548 5555 5556 5557 5451 5451 5470 5489 5537 5431 5444 5374 SEQ ID 5491

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	Top Hit Descriptor	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete eds	602036272F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184321 5	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds	RC5-ET0027-210600-022-G10 ET0027 Homo sapiens cDNA	601645287F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930453 5'	801558080F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'	601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'	zc08h06.r1 Soares_paraffryroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'	zc08h06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'	Homo saplens familial mental retardation protein 2 (FMR2) gene, exon 14	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5	601512630F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914238 5'	Homo saplens KIAA0735 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA	Homo sapiens KIAA0735 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA	Homo saplens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA	240h01.rl Soares, NhHMPu, S1 Homo sapiens cDNA clone IMAGE:665805 5' similar to SW:YY05, HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.	zatibol.ri Scares, NhHMPu, St Homo saplens cDNA clone IMAGE:665905 5' similar to SW:YY05, HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTFIN 5	Human T cell surface glycoprotein CD-6 mRNA, complete cds	Human T cell surface glycoprotein CD-6 mRNA, complete cds	AU137772 PLACE1 Homo sapiens cDNA clone PLACE1007201 5'	Human G protein-coupled receptor GPR-9-6 gene, complete cds	zq81d03.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA done IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN ·	Homo sapiens xylosyltransferase II (XT2), mRNA	Homo sapiens xylosyltransferase II (XT2), mRNA	601109532F1 NIH_MGC_16 Hamo sapiens cDNA clane IMAGE:3350622 5	Human anion exchanger (AE1) gene, exons 1-20	Homo sapiens peptide transporter 3 (LOC51296), mRNA
	Top Hit Database Source	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	LN.	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	Į.	EST_HUMAN	EST_HUMAN	M	IN	LN	EST HUMAN	EST HUMAN	NT	¥	EST_HUMAN	NT.	EST HUMAN	NT	NT TN	EST_HUMAN	TN	N
	Top Hit Acession No.	Jagae1.1	0.0E+00 BF338835.1	0.0E+00 BE273983.1	0.0E+00 BF569905.1	0.0E+00 AF217289.1	0.0E+00 BE828144.1	0.0E+00 BE958636.1	0.0E+00 BF031742.1	0.0E+00 BF031742.1	0.0E+00 W33069.1	0.0E+00 W33069.1	0.0E+00 AF012618.1	0.0E+00 BE280197.1	0.0E+00 BE889610.1	11433071 NT	11433071 NT	9789986 NT	0.0E+00 AA193506.1	0.0E+00 AA193506.1	J34625.1	J34625.1	0.0E+00 AU137772.1	J45982.1	AA204740.1	0.0E+00 11545913 NT	11545913 NT	0.0E+00 BE257173.1	.35930.1	11435630 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00 U86961.1	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00/	0.0E+00 U34625.1	0.0E+00 U34625.1	0.0E+00	0.0E+00 U45982.1	0.0E+00/	0.0E+00	0.0E+00	0.0E+00	0.0E+00 L35930.1	0.0E+00
	Expression Signal	3.03	2.1	2.93	1.74	2.47	1.89	1.41	1.66	1.66	1.54	1.54	2.16	3.57	2.74	. 1.63	1.63	10.66	1.29	1.29	13.03	13.03	1.41	3.4	4.14	3.57	3.57	2.8	1.47	1.38
	ORF SEQ ID NO:	25545	25553	25555			25589		25613			25634		25636	25642	25654	25655	25668	25671	25672	25690	25691	25742	25756	25770	25771	25772	25790	25800	25811
	Exan SEQ ID NO:	15473	15480	15482	15489	15510	15511		15530	15530	15545	15545	15546	15548	15551	15561	15561	19450	15574	15574	15589	15589	15638	15649	15663	15664	15664			15701
	Probe SEQ ID NO:	5557	5564	9959	5574	5596	5597	5601	5615	5615	5631	5631	5632	5634	5638	5649	5649	5660	5663	5663	5680	2680	2230	5741	5755	5756	5756	5775	5784	5795

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Single Exon riodes Expressed in near	Top Hit Descriptor	AV650020 GLC Homo sapiens cDNA clone Gl CCAD09 3'	UI-HF-BLO-acc-q-12-0-UI.st NIH MGC 37 Home saniens cDNA clone IMA CE-3089754 9	以27b03.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE・14gg3 5	Human gene for the light and heavy chains of myeloperoxidase	601305368F1 NIH MGC 39 Homo sapiens cDNA clone IMAGE:3639618 5'	601305368F1 NIH MGC 39 Homo sapiens cDNA clone IMAGF 3639618 5	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005380 5'	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005380 51	ws25c07.xt NCI CGAP GC6 Homo sapiens cDNA clone IMAGE-2498220 3'	601105344F1 NIH MGC 15 Homo sapiens cDNA clone IMAGE 2987963 57	601105344F1 NIH MGC 15 Homo sabiens cDNA clone IMAGE: 2987963 51	Ul-HF-BLO-aco-h-02-0-UI-1 NIH MGC 37 Homo saniens cDNA chore IMA CE 30150034 F	UI-HF-BLD-aco-h-02-0-UL/1 NIH MGC 37 Homo seniens china inna cinna inna central seniens china inna inna central seniens china inna central seniens china inna central seniens china inna central seniens china inna central seniens china central seniens china central seniens china central seniens china central seniens ce	AV719444 GLC Homo sapiens cDNA clone GLCEHC06 5	Homo saplens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds	au98h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 G124, [3] TR:O43840 TR:O43206	au96h08.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to	601587561F1 NIH MGC 7 Homo saniens cONA clane 1846 CE-2044847 E1	601512058F1 NIH MGC 71 Homo saplens cDNA clone IMAGE 3013341 5	601512059F1 NIH MGC 71 Homo sapiens cDNA clone IMAGE:3913311 5'	Human antigen CD27 gene, exons 1-2	Homo sapiens chromosome 21 segment HS21C004	Hamo sapiens chromosome 21 segment HS2/C004	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A) mRNA	#31f11.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:22424133' similar to SW:WNT3_MOUSE_P17553 WNT-3 PROTO-ONCOGENE PROTEIN PRECI IDSOB	Homo sapiens zinc finger homeodomain profein (ATRF1.4) mRNA complete code	ZW52c03.r1 Soares total fetus Nb2HF8 9w Homo eaniers cDNA Almo NACE:772555 51	QV3-BN0047-300800-278-c06 BN0047 Homo saniens citing	AU125928 NT2RM4 Homo saplens cDNA clone NT2RM4002430 5	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
Jie Exoii r 10	Top Hit Database Source	EST HUMAN	EST HUMAN	EST HUMAN	LN LN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	Į.	EST HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	TN	NT	LN LN	FZ	EST HUMAN	N	T HUMAN	Г	Т	EST_HUMAN
PIIO I	Top Hit Acession No.	0.0E+00 AV650020.1	0.0E+00 AW575598.1	H01255.1	X15377.1	0.0E+00 BE735989.1	0.0E+00 BE735989.1		0.0E+00 AU119245.1	0.0E+00 Al989483.1	BE293153.1	0.0E+00 BE293153.1	0.0E+00 AW408348.1	AW 406348.1	0.0E+00 AV719444.1	2	0.0E+00 AW163640.1	0.0E+00 AW163640 1	T	Γ	Γ		1.2	NL163204.2	6005983 NT	0.0E+00 Al638412.1		1.1			=
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00 H01255.	0.0E+00 X15377.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW4063	0.0E+00	0.0E+00 AF190860	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 L24493.1	0.0E+00 AL163204	0.0E+00 AL163204	0.0E+00	0.0E+00	0.0E+00 L32832.1	0.0E+00 AA434584	0.0E+00	0.0E+00/	0.0E+00 BE16913
	Expression Signal	8.1	2.81	4.21	1.99	4.25	4.25	11.57	11.57	1.56	4.81	4.81	1.36	1.36	1.69	2.24	3.45	3.45	4.79	7.23	7.23	3.71	2.15	2,15	3,54	4.13	1.79	3.58	1.48	1.44	7.44
	ORF SEQ ID NO:		25848	25850	25857	25862		25869	25870	25878	25882	25883	25931	25932	25951	25958	25964	25965	25978	25981	25982	25988	25991	25992	25999	26001	26002	26007	26019	26044	26076
	Exon SEQ ID NO:	15732	15736					15753	15753	15760	15765	15765	15807	15807	15826	15835	15841	15841	15856	15860	15860	15866	15869	15869	15875	15877	15878	15885	15896	15916	15944
	Probe SEQ ID NO:	5826	5830	5832	5838	5843	5843	5847	5847	5854	5859	5859	5901	5901	5921	5930	5936	5936	5951	5955	5955	2863	5964	5964	5970	5973	5974	5980	5991	6011	6041

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	Top Hit Descriptor	AU133213 NT2RP4 Hamo sapiens cDNA clone NT2RP4001656 6'	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002345 5	601431819F1 NIH MGC 72 Homo sapiens cDNA done IMAGE:3917104 5	601431819F1 NIH MGC 72 Homo sapiens cDNA done IMAGE:3917104 o	Homo sapiens keratin 12 (KK 112) gene, complete cas	Homo saplens keratin 12 (KR112) gene, complete cds	Homo sapiens vitamin D (1,25- dinydroxywitamin D3) receptor (VDR), mrstvA	Homo sapiens vitamin D (1,25- dihydroxyvitamin D3) receptor (VDK), mrkNA	qc67a07.xf Scares_placenta_8tc9weeks_ZNbHP8tc9W Homo saptens cUNA crone invAccr 140444.5 similar to SW:ARSD_HUMAN P61689 ARYLSULFATASE D PRECURSOR ;contains element HGR	repetitive element;	qc67a07.x1 Soares_placenta_8to9weeks_2NbHP8tc9W Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYLSULFATASE D PRECURSOR ;contains element HGR	repetitive element;	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mKNA	602035089F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4182839 5	zn60f09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5 similar to 1 K:G800552 G806562 NEBULIN.;	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds	H.sapiens DNA for ZNGPZ pseudogene, exon 4	Human P2x1 receptor mRNA, complete cds	Human P2X1 receptor miXNA, complete cas	EST368573 MAGE resequences, MAGD Homo sapiens CLINA	EST362686 MAGE resequences, MAGA Homo sapiens CLIVA	x639a05.y1 NCI_CGAP_LU3T Homo sapers CLINA GIGTB INMAGE_237.6040 5 SITTING ID 113.00050 COSSOS HINES/FH TRANSCRIPTION FACTOR GENESIS;	AU117553 HEMBA1 Homo sapiens cDNA clone HEMBA1001661 5'	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA	zn56f02.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:562203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17d05 random	
IG FYOUL LION	Top Hit Database Source	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	N	NT	L	NT.		EST_HUMAN		EST_HUMAN	TN	NT	EST HUMAN	EST_HUMAN	NT	Z	N	N	Ł	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	EST HUMAN	
Disc.	Top Hit Acesslon No.	0.0E+00 AU133213.1	0.0E+00 AU143706.1	0.0E+00 BE891286.1			0.0E+00 AF137286.1	11436699 NT	11436699 NT		N128344.1		Q1128344.1	11426392 NT	11426392 NT	0.0E+00 BF337375.1	0.0E+00 AA128453.1	0.0E+00 AF005213.1	0.0E+00 AF005213.1	X70172.1	U45448.1	U45448.1	0.0E+00 AW956503.1	0.0E+00 AW950516.1	0.0E+00 AW239326.1	0.0E+00 AU117553.1	11427135 NT	0.0E+00 AA211663.1	0.0E+00 AI752561.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		0.0E+00 A1128344		0.0E+00 A1128344	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X70172.1	0.0E+00 U45448.1	0.0E+00 U45448.	0.0E+00	0.0E+00	0.0日+00	0.0E+00	0.0E+00	0.0E+00		
	Expression Signal	5.9	2.44	1.31	1.31	1.97	1.97	3.63	3.63		25.51		25.51	18.73	18.73	14.06	5.1	6.72	6.72	7.55	11:09	11.09	1.43	2.54	1.67	1.8	3.64	54.65		
	ORF SEQ ID NO:	26253		26279	26280	24830	24831	26305	26306		26323		26324		26327		26329		26354		26362	26363	26372	26374	26411		26422		_	
	Exon SEQ ID NO:	16103	16119	16126	16126	15137	15137	16150	16150		16166		16166	16168	16168	16170	16172	16191	16191	16200	16202	16202	16210		16251	1			1	1
	Probe SEQ ID (6237	6253	6260	6260	8273	6273	6286	6286		6302		8302	6304	6304	6306	6308	6328	6328	6337	6339	6339	6347	6349	080	6400	6401	8444	RARO	7
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Single Exon Probes Expressed in Heart

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Single Exoll Flobes Expressed in near	Top Hit Descriptor	cn17d05xt Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTRC cn17d05 rendom	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds	Homo saplens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain (semanhorin) 5A (SFMA5A) mRNA	Homo saplens transient receptor potential channel 5 (TRPC5), mRNA	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'	AU129622 NT2RP2 Homo saplens cDNA clone NT2RP2005913 5	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	601593156F1 NIH, MGC 9 Homo sapiens cDNA clone IMAGE:3947365 5'	601593156F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3947365 5'	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 6'	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000655 5'	601481713F1 NIH MGC 68 Homo sapiens cDNA clone IMAGE:3884258 6	601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5	zo01c06.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE-568410 5	601305658F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5	Human amyloki-beta protein (APP) gene, exon 11	Human amyloid-beta protein (APP) gene, excn 11	2481b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482	AU142402 Y70AA1 Home saniene ANA Alma V70A A1000272 E	1602153008F1 NIH MGC 81 Home septens cDNA clone (MAGE 4204728 F)	DKFZp761P092 r1 761 (synonym: hamv2) Homo saniens cDNA close DKFZp784D003 st	DKFZp761P092 rt 761 (synonym: hamv2) Homo saniens cDNA clone DKFZp784Dno2 R	601485254F1 NIH MGC 69 Homo sapiens cDNA clone IMAGE 3887773 K	UI-HF-BNO-akj-f-01-0-UI.r1 NIH_MGC 50 Homo saplens cDNA clone IMAGE:3077496 57	aug3b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA done IMAGE:2783799 3' similar to	601578195F1 NIH MGC 9 Homo sanlens cDNA clone IMAGE-agrange #	601578195F1 NIH MGC_9 Homo saplens cDNA clone IMAGE:392698 5
gie Exori Pro	Top Hit Database Source	EST_HUMAN	TA	N T	Ŋ	TN	EST_HUMAN	EST_HUMAN	NT	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	FN	TN	FOT LIBAAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	ECT LIBAAN	EST HUMAN	EST_HUMAN
	Top Hit Acession No.	AI752561.1	0.0E+00 AF064205.1	0.0E+00 AF064205.1	11417342 NT	6912735 NT	0.0E+00 BF217905.1	4U129622.1	4501848 NT	3E739870.1		0.0E+00 AU120424.1	NU120424.1	3E787610.1		\A149791.1	3E736046.1	A34872.1	A34872.1	14307554 4	U142402.1	0.0E+00 BF673096.1		-		W500549.1	W/457933 4	<u>;</u> -	-
	Most Similar (Top) Hit BLAST E Value	0.0E+00 AI752561	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AU12962	0.0E+00	0.0E+00 BE73987	0.0E+00 BE73987	0.0E+00	0.0E+00 AU12042	0.0E+00 BE787610	0.0E+00 BE78761	0.0E+00 AA14979	0.0E+00 BE736046	0.0E+00 M34872.1	0.0E+00 M34872.1	0.0E+00 4430755	0.0E+00 AU142403	0.0E+00	0.0E+00 AL120124	0.0E+00	0.0E+00	0.0E+00 AW50054	0.0E+00 AW15723	0.0E+00 BE745597	0.0E+00 BE745597
	Expression Signal	4.25	1.59	1.59	1.3	1.98	5.37	2.98	6.49	4.97	4.97	60.88	60.88	1.52	1.52	1.29	3.72	3.97	3.97	7	7.54	8.73	1.96	1.96	1.31	1.35	14.35	1.16	1.16
	ORF SEQ ID NO:	26487	26530	26531	26551										26615	26690		26729	26730	26749	26750		26783	26784		26810	26813	26842	26843
	Exon SEQ ID NO:	16321	16358	16358	16374	16389							16414	16432	16432	16502	16525	16534	16534	16554	16557	16568	16594	16594	16610	16621	16626	16654	16654
	Probe SEQ ID NO:	6462	6439	6489	6515	6530	6534	6239	6550	6555	6555	6556	6556	6574	6574	6622	6645	6654	6654	6674	229	6588	6714	6714	6730	6742	6747	6775	6775

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Table 4
Single Exon Probes Expressed in Heart

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ייניין ייניין אין פספים יין ייניין פספים יינייין פספים ייניין פספים ייניין פספים ייניין פספים יינייין פספים יינייין פספים יינייין פספים ייניין פספים יינייין פספים יינייין פספים ייניייין פספים ייניייין פספים יינייייין פספים יינייייייייייייי	Top Hit Descriptor	Homo sapiens Xq pseudoautosomal region; segment 1/2	7d76a04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:095793 095793 STAUFEN PROTEIN:	WISOB10.X1 NCI_CGAP_Brn25 Home septens cDNA clone IMAGE:2429275 3' similar to SW-COGT HIJMAN PERSAN MATERY IN CORD TENANCE 4' TOP OF COMMENTAL FOR THE PROPERTY OF THE PROPERT	601334790F1 NIH MGC 39 Homo sepiens chNA clone IMAGE-Serages 5	601334790F1 NIH MGC 39 Homo sapiens cDNA clone IMAGF-3688655 5	Homo saplens Chediak-Higashi syndrome 1 (CHS1) mRNA	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA	並73e08.s1 Soares, testis_NHT Homo saplens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN):	QV3-DT0045-221299-046-c07 DT0045 Homo seniens cDNA	QV3-DT0045-221299-046-c07 DT0045 Homo saniens cDNA	601452412F1 NIH MGC 66 Homo saplens cDNA clame IMAGE 13858170 F	601452412F1 NIH MGC 66 Homo sapiens cDNA clone IMAGE:3856179 5'	Homo sapiens chromosome 21 segment HS21C009	Homo saplens chromosome 21 segment HS21C009	601431238F1 NIH MGC 72 Homo sapiens cDNA clone IMAGE:3916569 5	Homo sapiens mitogen-activated protein kinase kinase kinasa 13 (MAP3K13), mRNA	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13) mRNA	H. sapiens mRNA for gamma-glutamytransferase	H.sapiens mRNA for gamma-glutamyltransferase	H.sapiens mRNA for gamma-glutamytransferase	xo46e01 x1 NCI_CGAP_Ut1 Homo saplens cDNA clone IMAGE:2707032 3' similar to gb:M14123_cds4 RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN):	HUM084C02B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cONA clone GEN-084C02	601236488F1 NIH MGC 44 Homo saniens cDNA clane IMA CE 3809700 F	282e04.r1 Source overy timer NhHOT Home canions cDNA alone (NACE: 22.000)	601900571F1 NIH MGC 19 Hamo saniens cDNA clone IMAGE:4430744 F	UI-H-BI1-adr-e-12-0-UI-st NCI CGAP Subs Home senions cDNA clame INA/OE:0247207 21	UH-BI1-adr-e-12-0-UI.s1 NCI CGAP Sub3 Homo saniens CDNA clare IMAGE: 77772697 2			
	Top Hit Database Source	N	EST_HUMAN	FST HIMAN	EST HUMAN	EST HUMAN	NT	IN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	N	TN	EST HUMAN	N.	NT	FZ	N L	TN	EST_HUMAN	EST HIMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	
	Top Hit Acession No.	0.0E+00 AJ271735.1	3E674157.1	A1885671.1	3E563650.1	0.0E+00 BE563650.1	11427235 NT	11427235 NT	0.0E+00 AA398511.1	AW364874.1	AW364874.1	0.0E+00 BE612586.1	0.0E+00 BE612586.1		0.0E+00 AL163209.2	3E890797.1	4768695 NT	4758695 NT				0.0E+00 AW513513.1	52650 1	0.0E+00 BE378495.1			-	2			
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00 BE674157	0.0E+00 AI885671	0.0E+00 BE563650	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW36487	0.0E+00 AW36487	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 BE890797	0.0E+00	0.0E+00	0.0E+00 X98922.1	0.0E+00 X98922.1	0.0E+00 X98922.1	0.0E+00	0.0E+00 D52650 1	0.05+00	0.0E+00/	0.0E+00 BF313946	0.0E+00 AW139673	0.0E+00	0.0E+00	0.0E+00 BF700165	
	Expression Signal	2.72	22	1.36	1.31	1.31	44.1	1.44	3.89	1.45	1.45	121	1.21	1.25	1.25	2.01	2.4	2.4	2.85	2.85	2.85	1.36	3.64	4.46	1.31	4.32	1.41	1.41	2.39	1.83	
	S. O	26852	26878	26879	L		26897	26898		26928		26942			26957	,	26984	26985	27026	27027	27028		27083	27081	27083		27088	27089	27104	27106	
	Exon SEQ ID NO:	16662	16689	16690	16696	16696	16703	16703	16730	16735		16748	16748	16758	16758	16778	16791	16791	16833	16833	16833	16870	16872	16888	16892	16893	16898	16898	16915	16917	
	Probe SEQ ID NO:	6783	6810	6811	6817	6817	6824	6824	6851	6856	9589	6989	6989	6829	6829	6899	6913	6913	6955	6955	6955	6993	6995	7011	7015	7016	7021	7021	7038	7040	

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Top Hit Descriptor	602127664F1 NIH MGC 58 Homo sapiens cDNA clone IMAGE-4284542 51	602127664F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5	or80g02.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1602194 3' similar to gb:M36072 60S RIBOSOMAL PROTEIN L74 (HIIMAN)	Homo sapiens ankvrin 1. erythrocytic (ANK1) transcrint variant 1 mBN/A	Homo sapiens ankritn 1, exhitocortic (ANK1) transcrint variant 1 mBNA	Homo sapiens ITGB4 dene for Inferrin bets 4 submitte evens 2.44	AV718377 FHTB Hamo sapiens cDNA clone FHTBAAF11 5'	xw73c07.x1 NCI_CGAP_Par1 Homo sepiens cDNA clone IMAGE:2833644 3' similar to gb:X53587 INTEGRIN RETA-4 SI IRI INIT PRECLIPSOD ALLIMANIA.	AU124051 NT2RM2 Homo saplens cDNA clone NT2RM20n1575 5	Homo sapiens mRNA for KIAA0454 protein partial cds	hf48a09.x1 Stares NFL T GBC S1 Homo saniens cDNA clame IMAGE-20255022.2	11/48a09.xt Spares NFI T GRC S4 Home capture control and Advanced to the control of the control	DKFZp434C1814 s1 434 (swonym: htes3) Homo septens chivia clara niceta 22 424 s1 434 (swonym: htes3) Homo septens chivia clara niceta 22 434 (swonym: htes3) Homo septens chivia clara niceta 22 434 (swonym: htes3) Homo septens chivia clara niceta 32 434 (swonym: htes3) Homo septens chivia clara niceta 32 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia clara niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 434 (swonym: htes3) Homo septens chivia niceta 34 43 44 (swonym: htes3) Homo septens chivia niceta 34 43 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia niceta 34 44 (swonym: htes3) Homo septens chivia n	DKFZp434C1814 51 434 (synonym: htes3) Homo saniens cDNA clone DKFZy434C1814 31	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds	Homo seriens mRNA for KIAA1512 motion contint of	Homo sapiens fumor protein p73 (TP73) mRNA	Human ig rearranged H-chain ebsilon-3 pseudoriene constant region	Homo sapiens mRNA for KIAA0823 protein partial cds	Homo sapiens mRNA for KIAA0823 protein, partial cds	AV660739 GLC Homo sapiens cDNA clone GLCGKG123'	Homo sapiens polycystin-L (PKDL), mRNA	601141119F1 NIH MGC 9 Homo sapiens cONA clone IMAGE:3140740 5	601141119F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3140740 5'	Human mRNA for GABA-A receptor, alpha 1 subunit	wq34a12.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2473150 3' sImilar to SW:MGB3_HUMAN O15480 MFI ANOMA ASSOCIATED ANTICEN D2	Homo sapiens protocatherin alpha 8 (PCDLAAs) PAIA	EST370381 MAGE resentences MAGE Homo scalors and	Human endocenous retrovirus, complete genome	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
Top Hit Database Source	EST HUMAN	EST_HUMAN	EST HUMAN	NT	NT	NT	EST_HUMAN	EST HIMAN	EST HUMAN	IN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	LN	L	L L	N	LN.	TN	HUMAN		HUMAN	EST_HUMAN	Г	EST HIMAN		T HUMAN		
Top Hit Acession No.	0.0E+00 BF700165.1		AA982527.1	F	10947037 NT	Y11107.3	0.0E+00 AV718377.1	0.0E+00 AW337277.1	-	5	3.1	0.0E+00 AW 592233.1				-	22857		0.0E+00 AB020630.1	0.0E+00 AB020630.1	0.0E+00 AV660739.1 EST	7706638	1	2.1		_	3256595	-	635487	11436995 NT
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+300	0.0E+00	0.0E+00	0.0E+00	0.0Ё+00	0.0E+00	0.0E+00	0.0E+00 AF133901	0.0E+00	0.0E+00	0.0E+00 K01241.1	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X14766.1	0.0E+00 A1954607	0.0E+00	0.0E+00 AW95831	0.0E+00	0.0E+00
Expression Signal	1.83	1.83	6.35	3.54	3.54	1.28	1.45	3.64	1.57	2.64	4.41	4.41	2.84	2.84	1.17	18.6	3.97	1.25	2.65	2.65	1.96	3.43	3.86	3.86	1.91	2.12	4.49	1.54	1.49	6.88
ORF SEQ ID NO:		27108	27137					27169					27241	27242	27243	27244	27261	27268	27272	27273	27277	27280	27298	27299	27313	27320	27324	27333	27340	27352
Exan SEQ ID NO:	16917	16917	16946	16950	16950	16985	16972	16976	16979	17024	17025	17025	17053	17053	17054	17055	17075	17081	17084	17084	17087	17090	17108	17108	17118	17127	17131	17140	17148	17157
Probe SEQ ID NO:	7040	7040	7069	7073	7073	7088	7095	7099	7102	7147	7148	7148	7176	7176	7177	7178	7198	7204	7207	7207	7210	7213	7234	7231	7241	7250	7254	7263	7269	7280

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Single Exon Probes Expressed in Heart

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Single Extra Expressed in near	Top Hit Descriptor	Homo sapiens mRNA for KIAA0578 protein, partial cds	601589294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'	601510247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'	EST50505 Gall bladder I Homo sapiens cDNA 5' end	EST50505 Gall bladder I Homo saplens cDNA 5' end	ba09f05.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 6' similar to gb:L35049 Mus musculus Bcl-AL mRNA, complete cds (MOUSE);	ba09f05.yt NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus Bct-xt_mRNA, complete cds (MOUSE):	602023150F1 NCI CGAP Brn67 Homo sapiens cDNA clone IMAGE:4158300 5	QV2-HT0698-250700-282-b08 HT0698 Homo sapiens cDNA	DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5	ow60h01x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1651249 3' similar to TR-014677 014677 KIAA011 DEOTEIN	Home sarians handyladical C2H2 sinc flacer action El 192604 (El 192604) mENA	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA	qm09a06.x1 NCI CGAP_Lu5 Homo sapiens cDNA clone IMAGE:18812983' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A.;	qm09s06.x1 NCI_CGAP_Lu5 Homo septiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A.:	EST366028 MAGE resequences, MAGC Homo saplens cDNA	Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8	601109942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'	601466828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'	au86c04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783142 5' similar to gb:M36072 sos RIBOSOMAL PROTEIN L7A (HUMAN);	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'	C06158 Human pancreatic Islet Homo sapiens cDNA clone hbc5605	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605	601578683F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3927548 5'	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
JIE LAUII FIU	Top Hit Database Source	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EST HUMAN	EQT LIMAN	TIV	LN L	EST_HUMAN	EST HUMAN	EST HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	<u>N</u>
בונה בונה	Top Hit Acession No.	0.0E+00 AB011150.1	0.0E+00 BE794823.1	0.0E+00 BE883843.1	0.0E+00 BE883843.1	0.0E+00 AA344601.1	0.0E+00 AA344601.1	0.0E+00 BE207063.1	0.0E+00.BE207063.1	3.1	5.1	AL042278.1	O OELOO A lossoda 4	44560464 NIT	11560161 NT	0.0E+00 AI290909.1	A1290909.1	0.0E+00 AW953836.1	0.0E+00 AF153466.1	0.0E+00 BE255829.1	0.0E+00 BE781382.1	0.0E+00 BE781382.1	AW163779.1	0.0E+00 BE263191.1	C06158.1	C06158.1	BE746215.1	11437282 NT	11437282 NT
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00	0.0E+00 BF34801	0.0E+00 BE71251	0.0E+00 AL04227	00130	00+100	0.0E+00.0	0.0E+00	0.0E+00 A1290909	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW1637	0.0E+00	0.0E+00 C06158.	0.0E+00 C06158.	0.0E+00 BE74621	0.0E+00	0.05+00
	Expression Signal	1.44	2.56	1.24	1.24	1.6	1.6	1.38	138	2.71	8	11.81	1.07	200	206	8.86	8.86	1.69	3.92	4.9	1.37	1.37	7.21	2.85	3.98	3.98	3.22	1.93	1.93
	ORF SEQ ID NO:	27365	27366	27374	27375	27383	27384	27426	27427	27551	27457	27479	27503	2657B	26629	26632	26633	26634	27464		27529	27530	27531	27541	27562	27563	27566	27674	27575
	Exon SEQ ID NO:	17166	17167	17174	17174	17184	17184	17227	17227	17346	17252	17273	47202			16444	16444	16445	17259	17321	17323	17323	17324	17335	17358	17358	17360	17369	17369
	Probe SEQ ID NO:	7290	7291	7298	7298	7308	808/	0962	7360	7368	7383	7406	7425	7420	7429	7431	7431	7432	7450	7461	7463	7463	7464	7475	7488	7488	7490	7499	7499

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
7499		27576	1.93	0.0E+00	11437282 NT	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
7514	17302	57509	1.47	0.0E+00	0.0E+00 BE900549.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
7530		27591	2.59	0.0E+00	0.0E+00 AF019084.1	NT	Homo sapiens keratin 2e (KRT2E) gene, complete cds
7530	17381	Z69 <i>L</i> Z	2.59	0.0E+00	0.0E+00 AF019084.1	Ŋ	Homo sapiens keratin 2e (KRT2E) gene, complete cds
7548	17399	27612	1.47	0.0E+00	0.0E+00 BE082977.1	EST_HUMAN	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA
7559	17410		1.76	0.0E+00	0.0E+00 AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
7559	17410	27627	1.76	0.0E+00	0.0E+00 AW500293.1	EST_HUMAN	UHF-BN0-akg-b-12-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
7563	17414	27629	1.25	0.0E+00	0.0E+00 AF02B308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
7563	17414	27630	1.25	0.0E+00	0.0E+00 AF029308.1	LN	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and trypsinogen gene families
7580	17431	27645	2.45	0.0E+00	0.0E+00 AW 500526.1	EST HUMAN	UHHF-BN0-etd c-07-0-UI.rl NIH MGC 50 Homo sapiens cDNA clone IMAGE:3077384 5
7607	17458	27673	1.34	0.0E+00	0.0E+00 AF009668.1	· TN	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
7621	17472	27691	2.56	0.0E+00	0.0E+00 S78466.1	NT	AIGF≍androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
7621	17472	27692	2.56	0.0E+00	0.0E+00 S78466.1	Ę	AIGF≂androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt. segment 5 of 5]
7622	17473	27693	2.57	0.0E+00	0.0E+00 BE563320.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:368680 5
7630		27701	1.62	0.0E+00	0.0E+00 AW363135.1	EST_HUMAN	CM2-CT0311-301199-043-h11 CT0311 Homo sapiens cDNA
7650	17500	27722	2.17	0.0E+00	0.0E+00 AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo saplens cDNA clone NT2RP3004260 5'
7650	17500	27723	2.17	0.0E+00	0.0E+00 AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 6
7659		27734	7.73	0.0E+00	.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
7659		27735	. 7.73	0.0E+00	0.0E+00 BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo saplens cDNA clone IMAGE:3949383 5'
7666		27743	1.76	0.0E+00	32067		Homo sapiens ĶIAA0345 gene product (KIAA0345), mRNA
7682		27756	2.22	0.0E+00	0.0E+00 AU132349.1	EST_HUMAN	AU132349 NT2RP3 Hamo sapiens cDNA clone NT2RP3004260 5
7683		27757	1.86	0.0E+00	0.0E+00 AF152308.1	L	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
7701		27776	. 2.72	0.0E+00		NT	Homo sapiens leucocyte immunoglobulin-like receptor-1 mRNA, complete cds
7301		27777	2.72	0.0E+00	1	NT	Homo sapiens leucocyte immunoglobulin-like receptor-1 mRNA, complete cds
7708		27784	1.65	0.0E+00	0.0E+00 BF092898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
7720	17570	27795	2.44	0.0E+00	0.0E+00 BE280793.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
7728	17578	27800	1.74	0.0E+00	AW236269.1	EST HUMAN	xn72b01x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2899977 3' similar to gb:X02152_cds1 L- is LACTATE DEHYDROGENASE M CHAIN (HUMAN):
7736	L		1.91	0.0E+00	11427235	TN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
7753	17603	27826	5.98	0.05+00	0.0E+00 AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens dDNA clone Y79AA1002307 5

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Table 4
Single Exon Probes Expressed in Heart

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| Top Hit Descriptor | AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5' | Homo saplens killer cell inhibitory receptor KIRCI gene exons 2 3 and 4 | Homo sapiens HEF like Protein (HEFL), mRNA | Homo sapiens HEF like Protein (HEFL), mRNA | AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5 | AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5 | Homo sapiens partial RANBP7 gene for RanBP7/importin7 and partial 2NF143 gene | Homo sapiens partial RANBP7 gene for RanBP7/limportin7 and partial ZNF143 gene | क97h11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628197 5' | 231f01.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 57 | 231f01.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5' | Homo sapiens KIF4 (KIF4) mRNA, complete cds | 601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5

 | 601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5 | Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504),
mRNA | Homo sapiens mRNA for actin binding protein ABP620, complete cds | Homo sapiens mRNA for estrogen receptor beta, complete cds | Homo sapiens mRNA for estrogen receptor beta, complete cds | zq06h11.r1 Stratagene muscle 937209 Homo saplens cDNA clone IMAGE:628965 5' similar to TR:G407097 G407097 165KD PROTEIN | 602037045F1 NCI CGAP Bm84 Homo saplens cDNA clone IMA GE 4184030 F | 602037045F1 NCI_CGAP_Bm64 Homo sapiens cDNA done IMAGE:4184939 5
 | FB23A4 Fetal brain, Strategene Homo saplens cDNA clone FB23A4 3'end | nab45e12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271.3 | AV654765 GLC Homo sapiens cDNA clone GLCDZC07 3' | xu74b01x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M69066 MOESIN (HUMAN); | 601078764F1 NIH MGC 12 Homo sabiens cDNA clone IMAGE 3464703 5 | 601467419F1 NIH MGC 67 Homo sapiens cDNA clone IMAGE:3870700 5 | RC2-BT0642-150200-012-d03 BT0642 Homo serpiens cDNA | RC2-BT0642-150200-012-d03 BT0642 Homo sapiens cDNA | 601573895F1 NIH MGC 9 Homo sapiens cDNA clone IMAGE:3835108 5
 | 601573895F1 NIH_MGC_9 Hamo sapiens cDNA clone IMAGE:3835198 5 | AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5' |
| . Top Hit
Database
Source | EST HUMAN | Į. | N | Į. | EST_HUMAN | EST_HUMAN | TN | NT | EST_HUMAN | EST HUMAN | EST_HUMAN | NT | EST_HUMAN

 | EST_HUMAN | TN
 | NT | INI | NT | EST HUMAN | EST HUMAN | EST_HUMAN
 | EST_HUMAN | EST_HUMAN | EST_HUMAN | EST HUMAN | EST HUMAN | EST_HUMAN | EST_HUMAN | EST HUMAN | EST HUMAN
 | HUMAN | EST_HUMAN |
| Top Hit Acession
No. | AU143673.1 | AF072408.1 | | 11421001 | AU136637.1 | AU136637.1 | AJ295844.1 | AJ295844.1 | AA196387.1 | AA131248.1 | AA131248.1 | AF179308.1 | BE730772.1

 | BE730772.1 | 11560151
 | AB029290.1 | AB006590.1 | AB006590.1 | 4A194770.1 | 3F340331.1 | 3F340331.1
 | T03078.1 | 3F436218.1 | AV654765.1 | W517960.1 | 3E549213.1 | 3E781742.1 | 3E082720.1 | 3E082720.1 | 3E743215.1
 | П | 5.1 |
| Most Similar
(Top) Hit
BLAST E
Value | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00

 | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00, | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00 | 0.0E+00/ | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00 | 0.0E+00
 | 0.0E+00 | 0.0E+00[AV71107 |
| Expression
Signal | 5.98 | 7.52 | 2.48 | 2.48 | 2.96 | 2.96 | 2.13 | 2.13 | 4.01 | 1.17 | 1.17 | 1.46 | 3.45

 | 3.45 | 1.24
 | 1.64 | 5.19 | 5.19 | 3.27 | 5.43 | 5.43
 | 1.37 | 2.35 | 2.05 | 3.55 | 90'9 | 1.65 | 2.23 | 2.23 | 1.69
 | 1.69 | 2.33 |
| ORF SEQ
ID NO: | 27827 | 27830 | 27832 | | | | | 27880 | 27892 | 27915 | 27916 | 27937 |

 | |
 | 27987 | 27991 | 27992 | 27993 | 27994 | 27995
 | 28036 | 28065 | | 28072 | 28074 | 28092 | 28101 | 28102 | 28111
 | 28112 | 28170 |
| Exon
SEQ ID
NO: | 17603 | 17606 | 17608 | | | _ | _ } | | | 17673 | | | -

 | - 1 |
 | 17747 | 17753 | 17753 | 17754 | 17755 | 17755
 | 17796 | 17822 | 17823 | 17832 | 17834 | 17851 | 17858 | 17858 | 17865
 | 17865 | 17924 |
| Probe
SEQ ID
NO: | 7753 | 7756 | 7758 | 7758 | 7785 | 7785 | 7795 | 7795 | 7804 | 7823 | 7823 | 7842 | 7865

 | 7865 | 7892
 | 7897 | 7903 | 7903 | 7904 | 7905 | 7905
 | 7946 | 7972 | 7973 | 7982 | 7984 | 8001 | 8008 | 8008 | 8015
 | 8015 | 8032 |
| | Exon ORF SEQ Expression (Top) Hit Top Hit Acession Signal No. Signal Value | Exon
SEQ ID
NO: ORF SEQ
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NO: Expression
Signal
Value (Top) Hit
Top Hit
No. Top Hit
No. Top Hit
Database
No. Top Hit
Source 17603 27827 5.98 0.0E+00 AU143673.1 EST HUMAN | Exon
SEQ ID
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BLASTE
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No. Top Hit Acession
Source 17603 27827 5.98 0.0E+00 AU143673.1 EST HUMAN 17606 27830 7.52 0.0E+00 AF072408.1 NT | Exon
SEQ ID
NO: ORF SEQ
Signal Expression
BLAST E
Value (Top) Hit
No. Top Hit Acession
No. Top Hit Acession
No. Top Hit Acession
Source 17603 27827 5.98 0.0E+00 AU143673.1 EST HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 AF072408.1 NT | Exon
SEQ ID
NO: ORF SEQ
Signal Expression
Signal (Top) Hit
BLAST E
Value Top Hit Acession
No. Top Hit Acession
No. Top Hit Acession
Source 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 11421001 NT 17608 27833 2.48 0.0E+00 11421001 NT | Exon
SEQ ID
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Signal Expression
Signal (Top) Hit
BLAST E
Value Top Hit Acession
No. Top Hit Acession
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Source 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 11421001 NT 17608 27833 2.48 0.0E+00 11421001 NT 17608 27833 2.48 0.0E+00 11421001 NT 17608 27836 2.96 0.0E+00 AU136637.1 EST_HUMAN | Exon
SEQ ID
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Signal Expression
Signal (Top) Hit
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No. Top Hit Acession
Source 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 11421001 NT 17608 27833 2.48 0.0E+00 11421001 NT 17635 27838 2.96 0.0E+00 AU136637.1 EST_HUMAN 17635 27868 2.96 0.0E+00 AU136637.1 EST_HUMAN | Exon
NO: ORF SEQ
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Source 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 A11421001 NT 17608 27832 2.48 0.0E+00 A11421001 NT 17635 27868 2.96 0.0E+00 AU136637.1 EST_HUMAN 17645 27869 2.96 0.0E+00 AU136637.1 EST_HUMAN 17645 27869 2.96 0.0E+00 AU136637.1 EST_HUMAN | Exon
NO: ORF SEQ
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Source 17603 27827 5.98 0.0E+00 AF072408.1 NT 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 A1421001 NT 17609 27833 2.48 0.0E+00 A11421001 NT 17635 27869 2.96 0.0E+00 AU136637.1 EST_HUMAN 17635 27869 2.96 0.0E+00 AU136637.1 EST_HUMAN 17645 27869 2.96 0.0E+00 AU136637.1 EST_HUMAN 17645 27879 2.13 0.0E+00 AJ295844.1 NT 17645 27880 2.13 0.0E+00 AJ295844.1 NT | Exon Signal Most Similar Signal (Top) Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Across No. Source No. Across No. | Exon ORF SEQ Expression Signal (Top) Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal < | Exon
NO: ORF SEQ
ID NO: Expression
Signal (Top) Hit
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No. Top Hit Acession
Source 17603 27827 5.98 0.0E+00 ALV143673.1 EST HUMAN 17608 27830 7.52 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 AF072408.1 NT 17608 27832 2.48 0.0E+00 ALV143673.1 EST HUMAN 17635 27839 2.96 0.0E+00 ALV136837.1 EST HUMAN 17645 27879 2.13 0.0E+00 ALV36837.1 EST HUMAN 17645 27890 2.13 0.0E+00 ALV36844.1 NT 17646 27890 2.13 0.0E+00 ALV36844.1 NT 17673 27816 0.0E+00 ALV36884.1 NT 17673 27816 0.0E+00 ALV368837.1 EST HUMAN 17673 27816 0.0E+00 AA131248.1 EST HUMAN | Exon ORF SEQ Expression Top Hit Accession Top Hit Descriptor NO: Signal Name Name Source Source Top Hit Accession Top Hit Accession Top Hit Descriptor 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5: and 4 17608 27830 2.48 0.0E+00 AU1436637.1 EST_HUMAN AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5: and 4 17635 27836 2.96 0.0E+00 AU136637.1 EST_HUMAN AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5: and 4 17645 27869 2.06 0.0E+00 AU136637.1 EST_HUMAN AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5: and 4 17645 27869 2.13 0.0E+00 AL138637.1 EST_HUMAN AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5: and 4 17645 277892 4.01 0.0E+00 AL138634.1 <t< td=""><td>Exon ORF SEQ Expression Signal (Top) Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal <</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Patabase Autor 17603 27827 5.98 0.0E+00 ALV143673.1 EST_HUMAN 17606 27830 7.52 0.0E+00 ALV143673.1 EST_HUMAN 17608 27832 2.48 0.0E+00 ALV143673.1 EST_HUMAN 17608 27832 2.48 0.0E+00 ALV143673.1 EST_HUMAN 17609 27833 2.28 0.0E+00 ALV136637.1 EST_HUMAN 17609 27836 2.96 0.0E+00 ALV136637.1 EST_HUMAN 17645 27879 2.13 0.0E+00 ALV365844.1 NT 17646 27879 4.01 0.0E+00 ALV365844.1 NT 17645 2789 4.01 0.0E+00 ALV365844.1 NT 17646 2789 4.01 0.0E+00 ALV36584.1 NT 17673 27916 1.17 0.0E+00 AA131248.1</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession No. Top Hit Acession Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession No.</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal (Top) Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession Signal</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession No. Top Hit Acession No. Top Hit Acession Signal (Top) Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession No. Top Hit Acession Signal Top Hit Acession Signal</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession Potabase Top Hit Acession Potabase Top Hit Acession Potabase NO: Signal Value No. Source Source 17603 27827 5.98 0.0E+00 AU143673.1 EST_HUMAN 17608 27832 2.48 0.0E+00 AF072408.1 NT 17608 27833 2.48 0.0E+00 AU143673.1 EST_HUMAN 17608 27833 2.96 0.0E+00 AU136837.1 EST_HUMAN 17635 27869 2.96 0.0E+00 AU136837.1 EST_HUMAN 17645 27879 2.13 0.0E+00 AU136837.1 EST_HUMAN 17645 27890 2.13 0.0E+00 AU136837.1 EST_HUMAN 17645 27891 1.17 0.0E+00 AA131248.1 EST_HUMAN 17645 27892 4.01 0.0E+00 AA131248.1 EST_HUMAN 17645 27892 1.46 0.0E+00 AA131248.1 EST_HUMAN</td><td>Exon ORF SEQ Expression Signal (Top) Hit Acession Signal Top Hit Acession Potabase No. Top Hit Acession Potabase Source No. Top Hit Acession Signal Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source No. Top Hit Acession Signal No. Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source No. Top Hit Acession Potabase Source Source No. Top Hit Acession Potabase Sour</td><td>Exon
NO: CRF SEQ
Signal Expression
Signal Most Similar
(Top) Hit
Value Top Hit Acession
No. Top Hit Acession
Source Top Hit Acession
Source 17603 27827 5.98 0.0E+00
0.0E+00 AF072408.1
AF072408.1
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AF0725 NT FST_HUMAN 17608 27833 2.48 0.0E+00
0.0E+00 AF072408.1
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Single Exon Probes Expressed in Heart

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oligie Exol Flobes Explessed III heart	Top Hit Descriptor	AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA	EST375636 MAGE resequences, MAGH Homo sapiens cDNA	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA	wy61f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2553065 3' similar to TR:Q60566 Q60568 VDX;	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917	wb28a12.x1 NCI_CGAP_GC6 Homo saplens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element	wb28a12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element	Homo saniene NOD2 moteln (NOD2) mONA	Homo saniens NOD2 protein (NOD2), mixed	UI-HF-BL0-gcm-d-04-0-UI-T NIH MGC 37 Homo saniens cDNA clane IMAGE 3060383 F	Homo saplens hypothetical protein FL/20079 (FL/20079), mRNA	Homo sapiens 5-hydroxydryptamine (serotonin) receptor 1E (HTR1E) mRNA	Homo sapiens 5-hydroxydryptamine (serotonin) receptor 1E (HTR1E) mRNA	wu32b06.x1 Soares_Dieckgraefe_colon_NHCD Homo saplens cDNA clone IMAGE:2521715 31	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3906865 5'	601434522F1 NIH_MGC_72 Hamo sapiens cDNA clone IMAGE:3919636 5'	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA	601674332F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3957343 5'	295b11.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN):	601588829F1 NIH MGC 7 Homo sabiens cDNA clone IMAGE:3943015 5'	AV727362 HTC Homo sapiens cDNA clone HTCAOH06 5'	AV727362 HTC Homo sepiens cDNA clone HTCAQH06 5'	xy04g10.x1 NCI_CGAP_Lym12 Homo sepiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S RIBOSOMAL PROTEIN S16 (HUMAN):	AU135741 PLACE1 Homo sepiens cDNA done PLACE1002794 5'
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	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AW05762	0.0E+00	0.0E+00 Al652239.	0 0E±00 A 1652230	00+100	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 AI991827.	0.0E+00 BE882109.	0.0E+00 BE891630	0.0E+00	0.0E+00	0.0E+00 BE903304	0.0E+00	0.0E+00 BE793498.	0.0E+00 AV727362	0.0E+00 AV727362	0.0E+00/	0.0E+00 AU135741
	Expression Signal	2.33	6.11	6.43	2.5	2.5	1.99	1.92	4.86	4 86	294	2.91	2.01	4.8	9.16	9.16	2.73	3.04	10.56	22.36	22.36	1.91	4.05	4.69	6.8	6.8	17.96	217
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Single Exoll Plones Expressed in Realt	Top Hit Descriptor	hg13d02x1 Soares_NFL_T_GBC_S1 Homo saplens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;	hg13d02x/ Soeres_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;	hg13d02x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;	H.sapiens mRNA for H1 histamine receptor	HSC3IC031 normalized Infant brain cDNA Homo sapiens cDNA clone c-3ic03	Homo sapiens RGH1 gene, retrovirus-like element	xw66f01x1 NCI_CGAP_Pan1 Homo sepiens cDNA clone IMAGE:2832985 3' sImilar to gb:X17115 IG MU CHAIN C REGION (HUMAN);	UI-H-BI3-alh-a-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'	UI-H-BI3-alh-a-01-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736649 3'	Homo sapiens ribosomal protein L31 (RPL31) mRNA	Homo saplens mRNA for KIAA0667 protein, partial cds	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029219 5'	Homo sapiens mRNA for KIAA0545 protein, partial cds	Homo saplens of cardiac alpha-myosin heavy chain gene	601582046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'	AU118386 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5	xn72b01.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02152_cds1 L- LACTATE DEHYDROGENASE M CHAIN (HUMAN);	qf43c03.x1 Soares_tests_NHT Homo sapiens cDNA clone IMAGE:1752772 3'	qf43c03.x1 Scares_testis_NHT Homo sapiens cDNA clone iMAGE:1752772.3'	QV4-ST0234-121199-032-b06 ST0234 Homo sapiens cDNA	AU116908 HEMBA1 Homo sapiens cDNA clone HEMBA1000255 5'	Hamo sapiens insulin receptor (INSR), mRNA	QV0-UM0093-170400-191-d06 UM0093 Homo sepiens cDNA	QV0-UM0093-170400-191-d06 UM0093 Homo sapiens cDNA	602037014F1 NC _CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184979 5	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17	Homo saplens of cardiac alpha-myosin heavy chain gene
JIE EXUIT PIO	Top Hit Database Source	EST_HUMAN	EST_HUMAN	EST_HUMAN	N	EST_HUMAN	LN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	IN	EST_HUMAN	NT	IN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	NT
	Top Hit Acession No.	0.0E+00 AW59333.1	0.0E+00 AW59333.1	0.0E+00 AW59333.1		F13069.1	0.0E+00 D10083.1	0.0E+00 AW338094.1		5.	4506632 NT	0.0E+00 AB014567.1	0.0E+00 BE298449.1	0.0E+00 AB011117.1	0.0E+00 Z20656.1	0.0E+00 BE792155.1	0.0E+00 BF684061.1	0.0E+00 AU118386.1	0.0E+00 AW236269.1	0.0E+00 AI149809.1	0.0E+00 A1149809.1		0.0E+00 AU116908.1	4726	6.1		0.0E+00 BF340308.1	9.1		0.0E+00 Z20656.1
	Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 F13069.1	0.0E+00	0.0E+00			0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			· 0.0E+00		0.0E+00	00+30'0			0.0E+00			
	.Expression Signal	3.45	3.45	3.45	1.82	2.8	2.12	2.92	5.64	5.64	14.21	2.03	2.35	1.88	59.52	3.47	25.37	6.16	2.72	6.77	6.77	3.05	4.62	18.63		1.78	2.14		ļ	68.7
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	Probe SEQ ID NO:	8166	8166	8166	8168	8169	8176	8191	8192	8192	8194	8196	8208	8224	8227	8240	8241	8244	8245	8250	8250	8251	8262	8265	8271	8271	8272	8273	8282	8283

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO: 8287 8307 8333 8328 8334 83341 83441 83410		2ο	Expression Signal Signal 3.52 24.65 24.65 149.55 1.05 1.05 3.78 3.78 3.78 3.78	Moss (T. (T.)	2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	Top Hit Database Source Source EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST_HUMAN	Top Hit Database Source Source Source Source EST HUMAN RC1-FT0134-170700-012-f07 FT0134 Homo saplens cDNA EST HUMAN RC1-FT0134-170700-012-f07 FT0134 Homo saplens cDNA cb32e07.s1 NCI_CGAP_Kid5 Homo saplens cDNA cb32e07.s1 NCI_CGAP_Kid5 Homo saplens cDNA cb32e07.s1 NCI_CGAP_Kid5 Homo saplens cDNA cb32e07.s1 NCI_CGAP_Kid6 Homo saplens cDNA cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1309009 67 EST_HUMAN Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA clone IMAGE:1309009 67 EST_HUMAN Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA Cb32e07.s1 NCI_CGAP_GCB1 Homo saplens cDNA Cb32e07.s1 NCI CGAP_GCB1 CCB1 Homo saplens cDNA CB32e07.s1 NCI CGAP_GCB0-CCB1 NCI CGAP_GCB0-CCB1 NCI CGAP_GCB0-CCB1 NCI CGAP_GCB0-CCB1 NCI CGAP_GCB1 HOMAN CDNA CGCAP_GCB0-CCB1 NCI CGAP_GCB0-CCB1 NCI CGAP_GCB0-CCB1 NCI CGCAP_GCB0-CCB1 NCI CGCAP_GCB0-CCB1 NCI CGCAP_GCB0-CCB1 CGCAP_GCB0-CCB1 CGCAP_GCB0-CCB1 CGCAP_GCB0-CCB1 CGCAP_GCB0-CCB1 CGCAP_GCB1 ---	----------------	-------	--	-------------------------------	---	--	--
8442 8443			1.74		0.0E+00 AW 500307.1 0.0E+00 BE897953.1 0.0E+00 AI459545.1	EST_HUMAN EST_HUMAN EST_HUMAN	UI-HF-BN0-akg-d-02-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5' 601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5' ao86g11.x1 Schiller meningloma Homo sapiens cDNA clone IMAGE:1952804 3'							
8443	183.78	28576	1.96		0.0E+00 Al459545.1 0.0E+00 F00884.1	EST_HUMAN EST_HUMAN	ao86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3' HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo sapiens cDNA clone 77E12							
8455			3.88	0.0E+00 0.0E+00	4758827	EST_HUMAN	HSB //E122 S I RA I AGENE Human skeletal muscle cDNA library, cat. #936215. Homo sapiens cDNA clone 77E12. Homo sapiens cDNA promo sapiens neurexin (II (NRXN3) mRNA							
8481	18354 18356		16	0.0E+00	0.0E+00 BF206561.1 0.0E+00 AW207734.1	EST_HUMAN EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5' UI-H-BI2-age-h-01-0-UI.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'							
8484 8484 8488			3.77	0.0E+00 0.0E+00 0.0E+00	5.1	EST_HUMAN EST_HUMAN NT	RC0-CT0380-210100-032-c10 CT0380 Homo sapiens cDNA RC0-CT0380-210100-032-c10 CT0380 Homo sapiens cDNA Homo sapiens mRNA for KIAA0717 protein, partial cds							
8488	18361	28626	6.91	0.0E+00	0.0E+00 AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds							

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					5	110 LAUIT 112	Oligie Lydie Tropes Lypiessed in Fredric
Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Acession No.	Top Hit Database Source	Top Hit Descriptor
8430	18363	28628	2.59	0.0E+00	0.0E+00 BE206848.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN.;
8480	18363	28629	2.59	0.0E+00	0.0E+00 BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B. 55KDA-ASSOCIATED PROTEIN. ;
8511	18383	28648	2.85	0.0E+00	11024711 NT	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
8514	18386	28651	2.01	0.0E+00	0.0E+00 BF093687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
8518	18390	28653	2.9	0.0E+00	3.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
8518	18390	28654	2.9	0.0E+00	0.0E+00 BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
8526	18398	28665	6.47	0.0E+00	0.0E+00 AA195905.1	EST_HUMAN	zp95b11.1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627933 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
8546	18418	28687	4.47	0.0E+00	0.0E+00 BF507876.1	EST_HUMAN	UI-H-BI4-aok-b-10-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
8546	18418	28688	4.47	0.0E+00	0.0E+00 BF507876.1	EST_HUMAN	UI-H-BI4-ack-b-10-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
8553	18423	28692	2.16	0.0E+00	0.0E+00 AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
8557	18427	28696	5.62	0.0E+00	0.0E+00 BE876401.1	EST HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
8557	18427	78897	29.62	0.0E+00	0.0E+00 BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Horno saplens cDNA clone IMAGE:3889207 5
8566	18435		10.32		0.0E+00 BF240536.1	EST_HUMAN	601875630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4099710 5'
8577		28713	3.05		7.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
8577		28714	3.05	0.0E+00	0.0E+00 AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
8581	18449	28717	3.49	0.0E+00	11430868 NT	INT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
8581	18449		3.49	0.0E+00	11430868 NT	IN	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
8596	18463		6.1	0.0E+00	4503544 NT	NT .	Homo sapiens eukaryotic translation fruitation factor 5A (EIF5A) mRNA
8603	18470			0.0E+00	0.0E+00 BF576267.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
8605	18472	28744			0.0E+00 AW328173.1	EST_HUMAN	dr04g05.x1 NIH_MGC_3 Homo sapjens cDNA clone IMAGE:2847177 5'
8608	18475		120.65		0.0E+00 M55083.1	M	Human garrma actin-like pseudogene, complete cds
8612	18479	28750	3.18		0.0E+00 Al660968.1	EST HUMAN	wf20e11.x1 Soares_Dieckgraefe_colon_NHUC Homo sapiens cDNA clone IMAGE:2351180 3: similær to gb:M87789 IG GAMMA-1 CHAIN C REGION (HUMAN);
8614	L				0.0E+00 BF306996.1	EST HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5
8614		L		0.0E+00	0.0E+00 BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo saplens cDNA clone IMAGE:4123948 57
8620	18486	28758	26.88		0.0E+00 BF362462.1	EST_HUMAN	QV2-NN0054-230800-333-e04 NN0054 Homo sapiens cDNA
8639	18504		4.07		0.0E+00 BE897051.1	EST_HUMAN	601439605F1 NIH_MGC_72 Homo sapiens cDNA done IMAGE:3924577 5'
8648	18512	28793			8923698 NT	NT	Homo saplens golgin-like protein (GLP), mRNA
8650	18514		2.24	0.0E+00	0.0E+00 BF207662.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo saplens cDNA clone IMAGE:4081715 5
8661	18550	28833	4.61	0.0E+00	0.0E+00 BE206846.1	EST_HUMAN	be04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:O76022 O76022 E1B 55KDA-ASSOCIATED PROTEIN ;

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ba04d07.y1 NIH_MGC_7 Homo saplens cDNA clone IMAGE:2823373 5' similar to TR:O76022 076022 E18. h22b10.x1 NCl_CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316699 3' sImilar to TR:Q13458 Q13458 7f27f12.x1 NCI_CGAP_CL1 Homo saplens cDNA clone IMAGE:3295919 3' similar to TR:O00409 O00409 wn83g03.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone IMAGE:2452468 3' similar to gb:S37431 LAMININ wz91h01.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2 nl42c08.s1 NCI_CGAP_Pr4 Homo saplens cDNA clone IMAGE:1043342 similar to gb:M95178 ALPHAnz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686 Q13686 ALKB HOMOLOG PROTEIN ; nz11c07.s1 NCI_CGAP_GCB1 Hamo sapiens cDNA clone IMAGE:1287468 3' similar to TR:Q13686 Q13686 ALKB HOMOLOG PROTEIN; DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 51 DKFZp434G178_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G178 5 Homo sapiens polycystic kidney disease associated protein (PKD1) gene, complete cds Homo saplens polycystic kidney disease-associated protein (PKD1) gene, complete cds wp06g08x1 NCL_CGAP_Kid12 Homo capiens cDNA clone IMAGE:2484094 3 601501090F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902926 5' 601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5 601572186T1 NIH_MGC_55 Homo saplens cDNA clone IMAGE:3839012 3 601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3 dr02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5 AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5 AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5 AU138211 PLACE1 Homo sapiens cDNA clone PLACE1008077 5 Top Hit Descriptor MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA Homo sapiens KIAA0247 gene product (KIAA0247), mRNA MR4-ST0118-261099-012-b03 ST0118 Homo sapiens cDNA QV0-CT0225-101299-071-f06 CT0225 Homo sapiens cDNA IL5-HT0731-020500-077-f05 HT0731 Homo sapiens cDINA ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN); CE11040 ZINC FINGER, C2H2 TYPE; CHECKPOINT SUPPRESSOR 1.; 55KDA-ASSOCIATED PROTEIN. Single Exon Probes Expressed in Heart RECEPTOR (HUMAN); TRIO.: EST HUMAN EST HUMAN EST HUMAN EST_HUMAN EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN **EST_HUMAN** EST_HUMAN EST HUMAN **EST HUMAN** Top Hit Database **EST HUMAN** EST_HUMAN EST_HUMAN EST HUMAN EST_HUMAN **EST_HUMAN** EST_HUMAN EST_HUMAN **EST HUMAN EST HUMAN** Source 눋 눋 11435244 Top Hit Acession 0.0E+00 AW753028.1 0.0E+00 AW006022.1 0.0E+00 AW387776.1 0.0E+00 AW387776.1 0.0E+00 BE185656.1 0.0E+00 AA760913.1 0.0E+00 AA760913.1 0.0E+00 BE206846.1 0.0E+00|AA558707.1 0.0E+00 AW327895. BE910546.1 0.0E+00|BE676347.1 0.0E+00 AL046540.1 0.0E+00 BF002333.1 0.0E+00 AI923116.1 0.0E+00 BE748899.1 AL046540. BE748899. 0.0E+00 AU141882. 0.0E+00 AU141882. ġ 0.0E+00 BE622317. 0.0E+00 AI934954.1 0.0E+00 L39891.1 0.0E+00 L39891.1 0.0E+00/ 0.0E+00 0.0E+00 0.0E+00 0.0E+00 (Top) Hit BLASTE **Jost Simila** 4.73 2.36 4.74 12.53 4.18 4.18 2.78 2.78 4.02 1.91 3.19 4.61 233 10.47 10.47 257 7.41 2.35 2.97 Expression Signal 28800 28834 28836 28842 24915 28812 28813 28823 28863 28864 28130 28875 28876 28888 28925 28943 28962 28963 ORF SEQ 28869 28924 28982 28941 ÖNO 18550 18518 18539 SEQ ID 18552 18557 15148 18529 18580 18580 17886 18589 18589 18599 18640 18640 18653 19474 18673 18673 18690 18558 18611 18584 18650 ġ 8670 SEQ ID 8668 8669 8712 8843 8661 8663 8700 8712 8722 8724 8724 8737 8772 8784 8797 8840 8728 8772 8878 8861 8861 8827 8827 8837 8837 ÿ

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Table 4
Single Exon Probes Expressed in Heart

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Top Hit Descriptor	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA	Human beta-prime-adaptin (BAM22) gene, exon 5	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'	601237691F1 NIH_MGC_44 Homo sapiens cDNA clane IMAGE:3609623 5'	zn5602.rl Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:662203 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN):	UI-HF-BN0-ama-c-01-0-UI.r1 NIH_MGC_50 Homo saplens cDNA clone IMAGE:3081217 5	601590588F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3894220 5'	Human von Willebrand factor pseudogene corresponding to exons 23 through 34	601299403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2), mRNA	Homo sapians calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, atternatively soliced	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively	spliced	602155/22F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4296725 5	602155/22F1 NIH_MGC_83 Home sapiens cDNA clone IMAGE:4296725 5	601676357F1 NIH_MGC_21 Hamo sapiens cDNA clone IMAGE:3958935 5'	601897524F1 NIH_MGC_19 Hamo sapiens cDNA clone IMAGE:4127069 5'	601897524F1 NIH_MGC_19 Home sapiens cDNA clone IMAGE;4127069 5	Human lambda-immunoglobulin constant region complex (germline)	riuman ramoda-minunogiobulin constant region complex (germline)	601880534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'	RC4-NN0025-120600-016-b07 NN0025 Homo sapiens cDNA	KC4-NN0025-120600-016-b07 NN0025 Homo sapiens cDNA	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532968 5'	Homo saplens myosin, heavy polypeptide 1, skelatal muscle, adult (MYH1), mRNA	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, edult (MYH1), mRNA		3215. Homo saplens cDNA clone	
Top Hit Database Source	N	NT	EST_HUMAN	EST_HUMAN	EST_HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	TN	EST_HUMAN	NT.	N	INT	Ę		LN	ESI HUMAN	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	IN I	IN I	EST HUMAN	EST_HUMAN	EST_HUMAN	EST_HUMAN	NT	M	NT	EST HUMAN	
Top Hit Acession No.	11435244 NT	0.0E+00 U36253.1	0.0E+00 BE379254.1	0.0E+00 BE379254.1	0.0E+00 AA211663.1			0.0E+00 BE879633.1		0.0E+00 BE409993.1	11427345 NT	11427345 NT	11427345 NT	0.0E+00 AF223391 1		0.0E+00 AF223391.1	0.0E+00 BF681641.1	0.0E+00 BF681641.1	0.0E+00 BE903372.1		0.0E+00 BF312552.1	X51 755.1	1,007,007	0.0E+00/BF309120.1		0.0E+00 BE698861.1	0.0E+00 BE297175.1	7669505 NT	7669505 NT	11024711 NT	F00884.1	
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	ļ	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 X51755.1	0.0E+00/A31/33.1	0.0E+00	0.0E+00	0.05+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 F00884.1	
Expression Signal	2.57	5.52	2.04	2.04	63.21	4.08	3.25	37.53	2.93	6.35	1.93	1.93	1.93	232		232	2.65	9.60	3.22	6.15	6.15	3.02	3.02	20.36	1.98	1.98	31.56	36.47	36.47	34.29	31.52	
ORF SEQ ID NO:		28987	28989	28990	26434	L	23005		29007				29017	29018			28020	12092	29026	29034	28035		78087		29062	29063	29066			29078	29081	
Exen SEQ ID NO:		18694		18696	16272	15883	18710				ı	18724	18724	18725		18/25	18/2/	18/2/	18732	18741	18741	16/42	L	194/5	187771	18//1	18775	18786	18786	18787	18792	
Probe SEQ ID NO:	8878	8883	8885	8882	8896	8900	8902	8903	8904	8915	8916	8916	8916	8917		2100	80.00	6160	8924	8933	8933	455	1000	8904	2969	200	8969	8981	8981	8982	8987	

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								_	_											Harri	<u> </u>	11	4	_apred1	_	41	ا اد	<u> </u>		tun!	Host	الساا	tinati	4
	Top Hit Descriptor	HSB77E122 STRATAGENE Human skeletal muscle cDNA library, cat. #936215. Homo sapiens cDNA clone 77E12	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds	Homo sapiens of cardiac alpha-myosin heavy chaln gene	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 6'	Homo sapiens chromosome 21 segment HS21C046	qe17b12.x1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1739231 3'	Hamo sapiens gene for AF-6, complete cds	Homo sapiens chromosome 21 segment HS21C046	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1)	genes, complete cds	DKFZp434K0819_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434K0819 5	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA	DKFZp434G218_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G218 5	IL-BT030-271098-001 BT030 Homo sapiens cDNA	ywłoe08.s1 Soares fetal jiver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to SW:POI. BAEVM P10272 POL POLYPROTEIN :	Homo saniens adenviosuccinate lyase dene complete cds	trains against T will hambone interior and materials (7/1/1/M4) mBNA	Tatio septers - Test yiphane mysson an incasson of Travia misson	Homo sepiens I -cell lymphoma mvasion and metastasis 1 (TIAWI) mr.NA	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA	Homo sapiens X-linked anhidratito ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat	regions	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	hg31e06x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2947234 3' similar to contains Alu	repetitive element, contains element MLK22 repetitive element;	RCG-BT0711-290300-011-D05 BT0711 Homo sepiens cDNA	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5 flanking region and partial cds	Human endogenous retrovirus, complete genome	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684759 3'	QV-BT065-020399-103 BT065 Homo capiens cDNA	·
	Top Hit Database Source	EST_HUMAN	NT	LNT	EST_HUMAN		EST_HUMAN	NT	NT	NT	NT		TN	EST_HUMAN	L	EST_HUMAN	EST_HUMAN	NAMIN TOT			Z	LN L	<u>N</u>		N	LN		EST_HUMAN	EST_HUMAN	NT	TN	EST_HUMAN	EST_HUMAN	
,	Top Hit Acessian No.	-00884.1			0.0E+00 BE312542.1	0.0E+00 AL163246.2	.1	0.0E+00 AB011399.1	AL 163246.2	11417862 NT	5802973 NT		0.0E+00 AF240786.1	AL041931.1	11418318 NT	0.0E+00 AL046544.1	0.0E+00 Al903497.1	NEAVOA 4	O OF TOO A FARER 4	AP (00000.1	1N 006/064	4507500 NT	10092587 NT		0.0E+00 AF003528.1	11430460 NT		0.0E+00 AW590082.1	0.0E+00 BE090210.1	0.0E+00 AF068757.1	9635487 NT	0.0E+00 AI204914.1	0.0E+00 A1904646.1	
	Most Similar (Top) Hit BLAST E Value	0.0E+00 F00884.1	0.0E+00 U84744.1	0.0E+00 Z20656.1	0.0E+00	0.0E+00	0.0E+00 AI190993	0.0E+00	0.0E+00 AL 163246	0.0E+00	0.0E+00		0.0E+00	0.0E+00 AL04193	0.0E+00	0.0E+00	0.0E+00	00.00	0.0	0.05+00	0.0E.+00	0.0E+00	0.0E+00		0.0E+00	0.0E+00	L.				0.0E+00			
	Expression Signal	31.52	7.35	92.9	2.54	2.67	3.43	2.24	2.2	2.73	5.48		1.63	2.82	3.07	4.39	2.36	,	0.00	3.30	3.21	3.21	2.75		2.7	2.48		3.23	19.1	2.33	1.56	1.59	1.58	
	ORF SEQ ID NO:	29082	29096	29098	24893								25066									20602				25183		25064						
	Exon SEQ ID NO:	18792	18803	18805	19747	19594	19605	18829	18843	18849	18864		19563	19571	19711	18910	19610	1		- 1		10752	19612	<u> </u>	10477	19412		19544	19595	L	19092		19136	
	Probe SEQ ID NO:	8987	0006	9002	9017	9031	9033	9043	3062	9071	0606		9123	9133	9158	9167	9180	3	9218	9233	9236	9236	9246		9276	9309		9370	9382	9426	9461	9498	9529	

Page 413 of 413 Table 4 Single Exon Probes Expressed in Heart

	_	7					-	_		S	_		_	_	\neg		4	۳,	1	1	- "	"	۳,
Top Hit Descriptor	HTM1-654F HTM1 Homo saplens cDNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds	yo59e08.r1 Soares breast 3NbHBst Homo sapiens cDNA cione IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);	yo59e08.r1 Soares breast 3NbHBst Homo sapions cDNA clone IMAGE:182246 5' similar to gb:M64099 GAMMA-GLUTAMYLTRANSPEPTIDASE 5 PRECURSOR (HUMAN);	Human gamma-cytoplasmic actin (ACTGP9) pseudogene	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA	TCBAP1E4466 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4466	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA	Homo saplens G protein-coupled receptor 24 (GPR24), mRNA	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA	Horno sapiens chromosome 21 segment HS21C046	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA	Human endogenous retrovirus pHE.1 (ERV9)	Homo sapiens oxytocin receptor (OXTR), mRNA	RC1-HT0595-200400-012-f12 HT0595 Homo sapiens cDNA	DKFZp434J0618_r1 434 (synonym: htes3) Homo saplens cDNA clone DKFZp434J0618
Top Hit Database Source	EST_HUMAN	LN	TN	IN	EST_HUMAN	EST_HUMAN	LN	LN	NT	EST HUMAN	TN	TN	NT	NT	LN	NT	TN	NT	NT	NT	LN	EST_HUMAN	EST_HUMAN
Top Hit Acession No.	0.0E+00 BE439792.1	6912457 NT	6912457 NT	0.0E+00 AF036365.1	H30132.1	H30132.1	0.0E+00 D50659.1	11418189 NT	11418189 NT	0.0E±00 BE246780 1	8922593 NT	11526291 NT	4885312 NT	0.0E+00 AB029900.1	9558724 NT	0.0E+00 AL163246.2	6806918 NT	7657020 NT	8567387 NT	0.0E+00 X57147.1	11434874 NT	0.0E+00 BE177449.1	0.0E+00 AL048911.1
Most Similar (Top) Hit BLAST E Value	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00 H30132.1	0.0E+00 H30132.1	0.0E+00	0.0E+00	0.0E+00	001400	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.05+00		0.0E+00
Expression Signal	1.68	1.98	1.98	2.33	2.87	2.87	32.21	3.99	3.99	7 S 7	1.64	2.39	3.19	2.21	1.5	2.79	1.41	2.13	2.42	1.51	1.29	1.56	1.28
ORF SEQ ID NO:		21724	21725	25267		21427		25244	25245	25214			24886		25233		20354		25177				
Exan SEQ ID NO:	19596	11841	11841	19161	11561	11561	19179	19181	19181	10230		19249	15092	19269	19291		10546	19364	Ŀ	19407	19621	19591	19431
Probe SEQ ID NO:	9540	9551	9551	9571	9584	9584	2692	828	9599	2890	9692	9696	9721	9734	8773	9794	0086	9878	9913	8888	9946	9966	9971

CLAIMS

A spatially-addressable set of single exon nucleic-acid probes for measuring gene expression in a sample derived
 from human heart comprising a plurality single exon nucleic probes, said probes comprising any one of the nucleotide sequences set out in SEQ ID NOs: 1 - 9,980 or a complementary sequence, or a portion of such a sequence.

- 10 2. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably amplifiable.
- 3. A spatially-addressable set of single exon nucleic acid probes as claimed in claim 1 wherein each of said plurality of probes is separately and addressably isolatable from said plurality.
- 4. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in any of claims 1 to 3 wherein said probes comprise any one of the nucleotide sequences set out in SEQ ID NOS.: 9,981 - 19,771.
- 5. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 4, wherein each of said plurality of probes is amplifiable using at least one common primer.
- 6. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 5 wherein the set comprises between 50 20,000 single exon nucleic acid probes.
- 7. A spatially-addressable set of single exon nucleic acid probes as claimed in any of claims 1 to 6, wherein the

average length of the single exon nucleic acid probes is between 200 and 500 bp.

- 8. A spatially-addressable set of single exon nucleic acid 5 probes as claimed in any of claims 1 to 7, wherein at least 50% of said single exon nucleic acid probes lack prokaryotic and bacteriophage vector sequence.
- 9. A spatially-addressable set of single exon nucleic acid 10 probes as claimed in any of claims 1 to 8, wherein at least 50% of said single exon nucleic acid probes lack homopolymeric stretches of A or T.
- 10. A spatially-addressable set of single exon nucleic acid
 15 probes as claimed in any of claims 1 9 characterised in
 that said set of probes is addressably disposed upon a
 substrate.
- 11. A spatially-addressable set of single exon nucleic acid 20 probes as claimed in claim 10 wherein said substrate is selected from glass, amorphous silicon, crystalline silicon and plastic.
- 12. A microarray comprising a spatially addressable set of single exon nucleic acid probes as claimed in any of claims 1 11.
- 13. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart

 30 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 1 9,980 or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid molecule expressed in the human heart.

14. A single exon nucleic acid probe as claimed in claim 13 comprising a nucleotide sequence as set out in any of SEQ ID NOs.: 9,981 - 19,771 or a complementary sequence or a fragment thereof.

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- 15. A single exon nucleic acid probe for measuring human gene expression in a sample derived from human heart which is a nucleic acid molecule having a sequence encoding a peptide comprising a peptide sequence as set out in any of SEQ ID NOs.: 19,772 29,119, or a complementary sequence or a fragment thereof wherein said probe hybridizes at high stringency to a nucleic acid expressed in the human heart.
- 16. A single exon nucleic acid probe as claimed in any one
 15 of claims 13 to 15 wherein said single exon nucleic acid
 probe comprises between 15 and 25 contiguous nucleotides of
 said SEQ ID NO.
- 17. A single exon nucleic acid probe as claimed in any one of claims 13 to 15, wherein said probe is between 3 25 kb in length.
 - 18. A single exon nucleic acid probe as claimed in any one of claims 13 17, wherein said probe is DNA, RNA or PNA.

25

- 19. A single exon nucleic acid probe as claimed in any one of claims 13 18, wherein said probe is detectably labeled.
- 30 20. A single exon nucleic acid probe as claimed in any one of claims 13 19, wherein said probe lacks prokaryotic and bacteriophage vector sequence.
- 21. A single exon nucleic acid probe as claimed in any one of claims 13 20, wherein said probe lacks homopolymeric

stretches of A or T.

22. A method of measuring gene expression in a sample derived from human heart, comprising:

contacting the microarray of claim 12, with a first collection of detectably labeled nucleic acids, said first collection of nucleic acids derived from mRNA of human heart; and then measuring the label detectably bound to each probe of

measuring the label detectably bound to each probe of said microarray.

23. A method of identifying exons in a eukaryotic genome, comprising:

algorithmically predicting at least one exon from genomic sequence of said eukaryote; and then detecting specific hybridization of detectably labeled nucleic acids to a single exon probe,

wherein said detectably labeled nucleic acids are derived from mRNA from the heart of said eukaryote, said probe is a single exon probe having a fragment identical in sequence to, or complementary in sequence to, said predicted exon, said probe is included within a microarray according to claim 12, and said fragment is selectively hybridizable at high stringency.

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24. A method of assigning exons to a single gene, comprising:

identifying a plurality of exons from genomic sequence according to the method of claim 23; and then

measuring the expression of each of said exons in a plurality of tissues and/or cell types using hybridization to single exon microarrays having a probe with said exon,

35 wherein a common pattern of expression of said exons in

said plurality of tissues and/or cell types indicates that the exons should be assigned to a single gene.

- 25. A nucleic acid sequence as set out in any of SEQ ID 5 NOs: 1 19,771 which encodes a peptide.
 - 26. A peptide encoded by a sequence as set out in any of SEQ ID Nos: 1 19,771.
- 10 27. A peptide comprising a sequence as set out in any of SEQ ID Nos: 19,772 29,119.

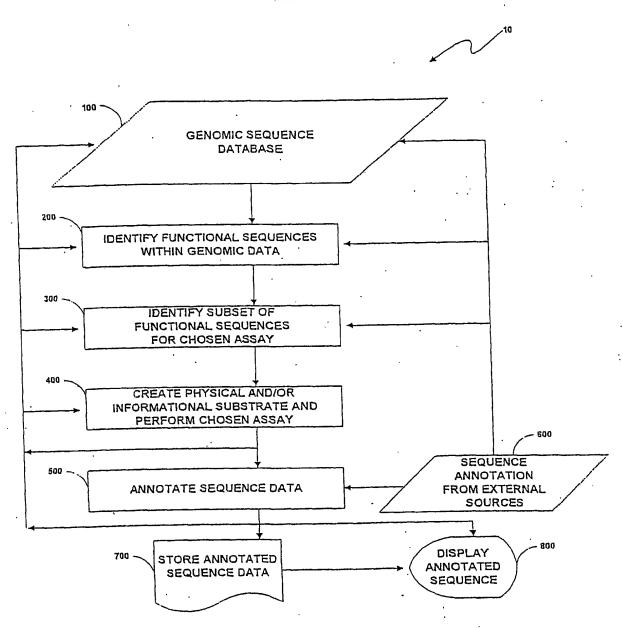


Fig. 1

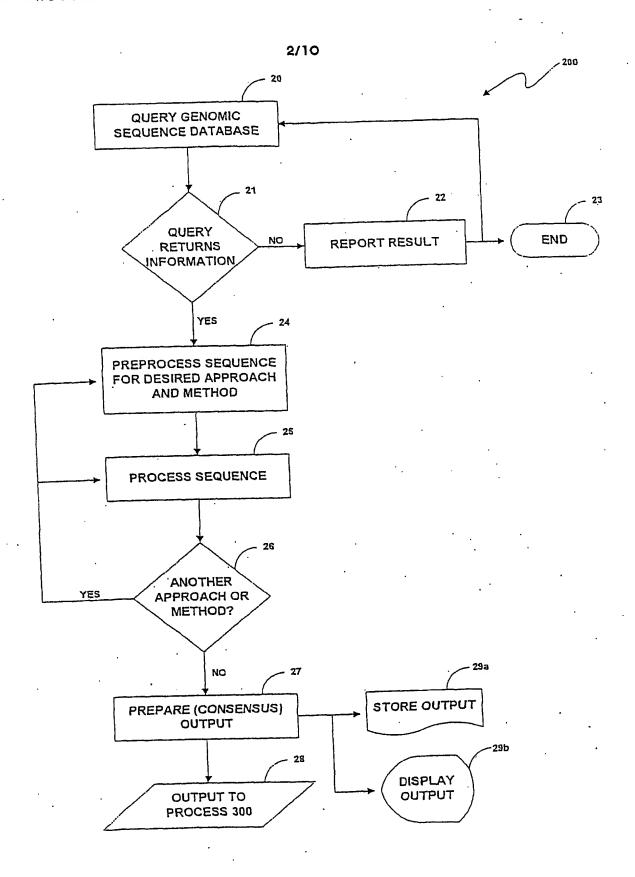


Fig. 2

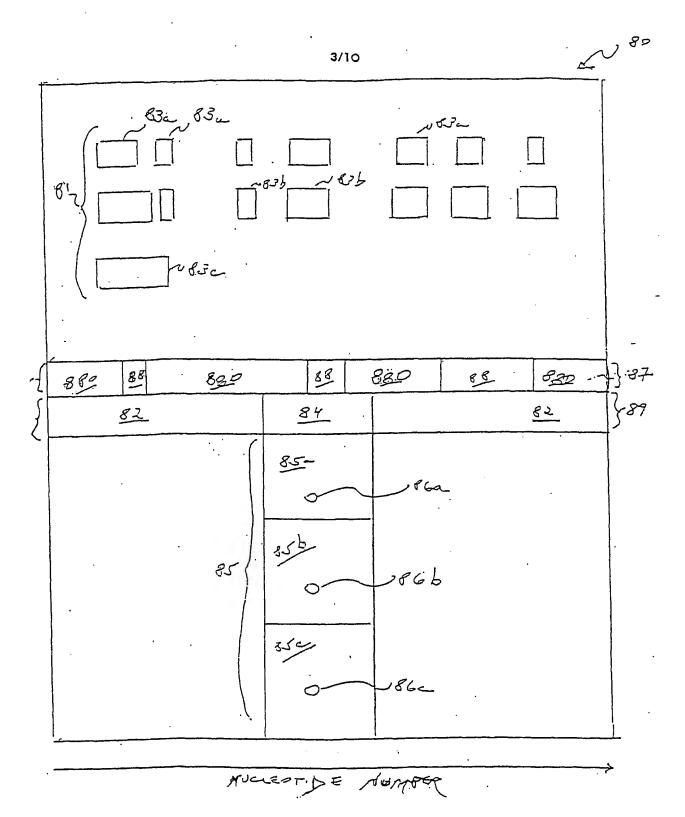


Fig. 3

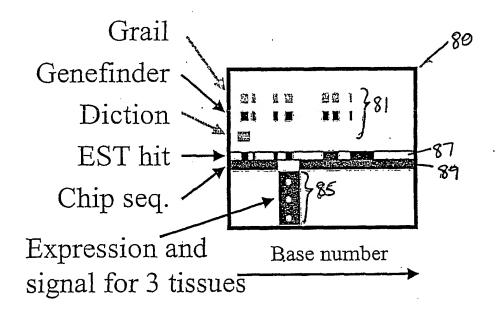


Fig. 4

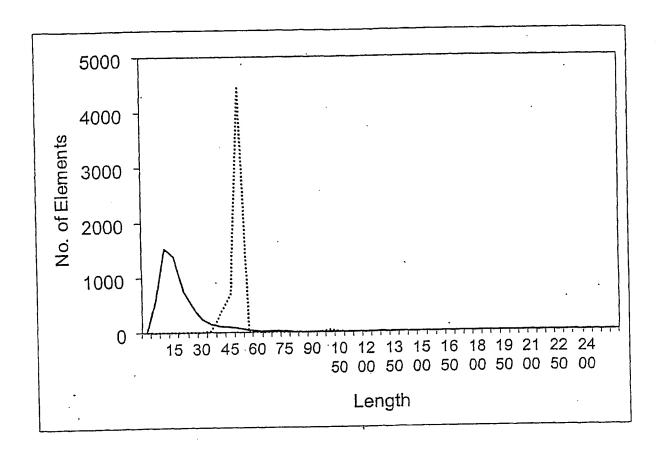


Fig. 5

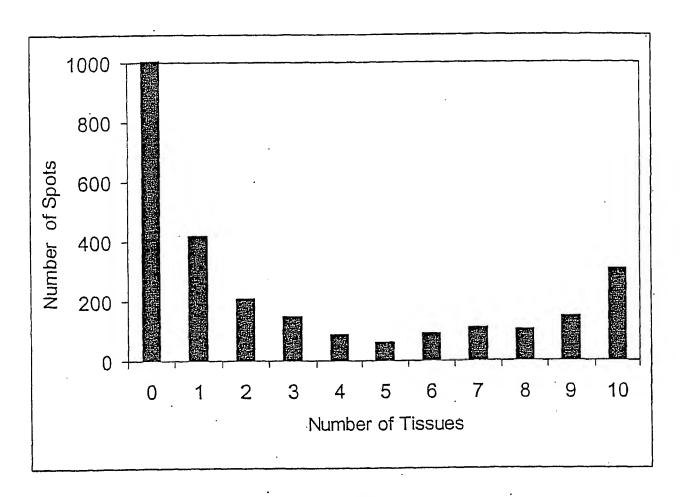
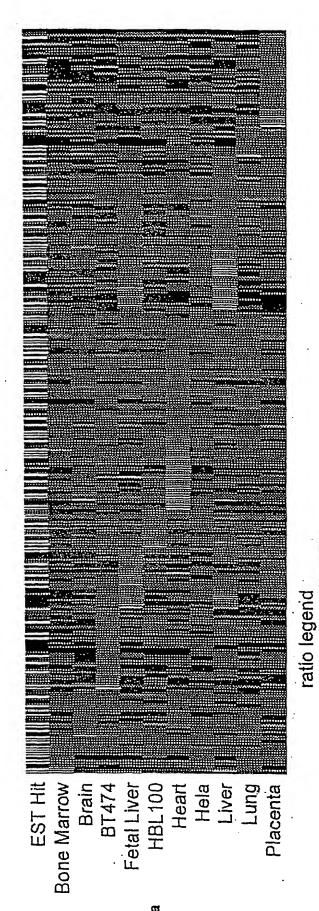
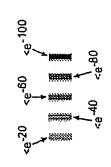


Fig. 6





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ig. 7b

Fig. 7.

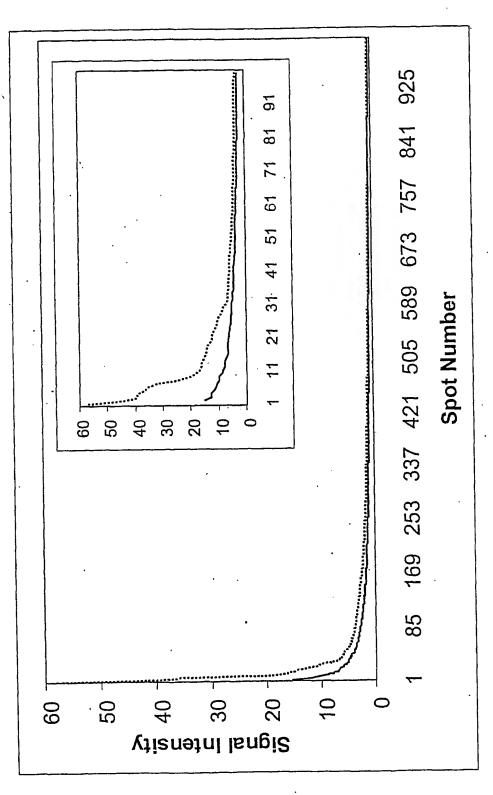


Fig. 8

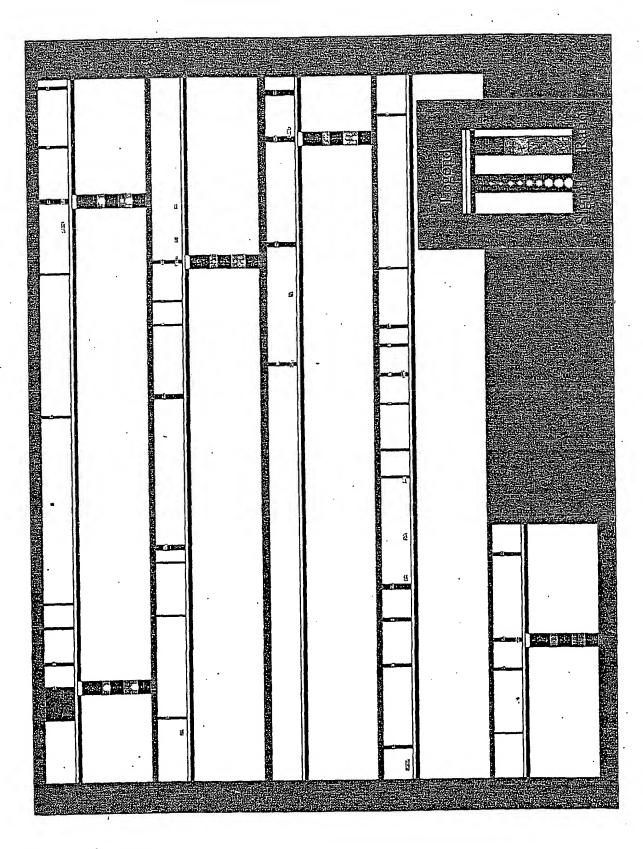
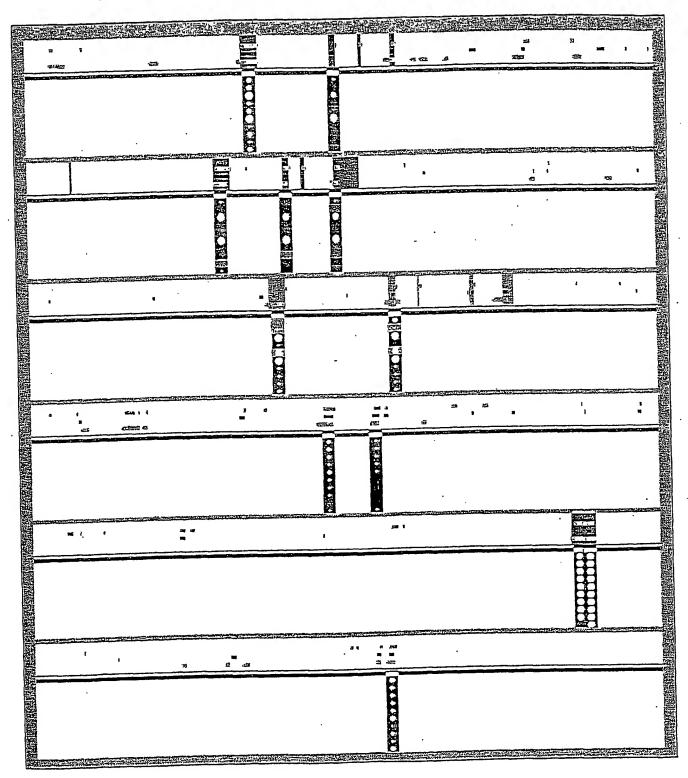


Fig. 9

Fig. 10



(19) World Intellectual Property Organization International Bureau



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- US 60/207,456 26 May 2000 (26.05.2000) 09/608,408 30 June 2000 (30.06.2000) US US 3 August 2000 (03.08.2000) 09/632,366 60/234,687 21 September 2000 (21.09.2000) US 27 September 2000 (27.09.2000) US 60/236,359 4 October 2000 (04.10.2000) GB 0024263.6
- (71) Applicant (for all designated States except US): AEOM-ICA, INC. [US/US]; 928 East Arques Avenue, Sunnyvale, CA 94086 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PENN, Sharron, G. [GB/US]; 617 South Delaware Street, San Mateo, CA 94402 (US). HANZEL, David, K. [US/US]; 968 Loma Verde Avenue, Palo Alto, CA 94303 (US). CHEN, Wensheng [CN/US]; 210 Easy Street #25, Mountain View, CA 94043 (US). RANK, David, R. [US/US]; 117 El Dorado Commons, Fremont, CA 94539 (US).
- (74) Agent: RONNING, Royal, N., Jr.; Amersham Pharmacia Biotech, Inc., 800 Centennial Avenue, P.O. Box 1327, Piscataway, NJ 08855 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with sequence listing part of description published separately in electronic form and available upon request from the International Bureau
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

1/057274 A

(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN HEART

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart is described. Also described are single exon nucleic acid probes expressed in the heart and their use in methods for detecting gene expression.

INTERNATIONAL SEARCH REPORT

ernational Application No

PCT/US 01/00666

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68

C. DOCUMENTS CONSIDERED TO BE RELEVANT

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

SEQUENCE SEARCH, EPO-Internal, PAJ, WPI Data, BIOSIS

Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
Х	DATABASE EBI 'Online! EMBL; Accession Number: AL049837, 11 May 1999 (1999-05-11) HEILIG ET AL.: "Human chromosome sequence BAC R-959A22 of library from chromosome 14 of Homo sapie (Human)"	RPCI-11	13-21, 25,27
Y	XP002182997 the whole document	-/·	1-12, 22-24,26
	ner documents are listed in the continuation of box C.	X Patent family members are listed in "T" later document published after the inter	
"E" earlier of filling docume which is citation "O" docume other n "P" docume later th	nt which may throw doubts on priority claim(s) or is clied to establish the publication date of another n or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	 "T" later document published after the inter or priority date and not in conflict with the cited to understand the principle or the invention "X" document of particular relevance; the cit cannot be considered novel or cannot involve an inventive step when the doc "Y" document of particular relevance; the cit cannot be considered to involve an inventive accomment is combined with one or more ments, such combination being obvious in the art. "&" document member of the same patent to the patent of mailing of the international sear 	aimed invention be considered to ument is takenalone aimed invention entive step when the e other such docu- s to a person skilled
12	2 July 2002	0 7. 08. 2002	

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Botz, J

INTERNATIONAL SEARCH REPORT

ternational Application No PCT/US 01/00666

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category *	Citation of document, with indicators, miles appropriate, or the relevant passesses	
x 1	DATABASE EBI 'Online!	13-21,
^	EMBL:	25,27
İ	AA414703, 9 May 1997 (1997-05-09)	
	MARRA ET AL.: "The WashU-HHMI Mouse EST	
}	Project"	1
	XP002205620	
Y	the whole document	1-12,
'		22-24,26
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x l	DATABASE EBI 'Online!	15-21,27
	EMBL;	
ĺ	Accession Number: 002711,	
İ	1 July 1997 (1997-07-01)	
J	BENIT ET AL.: "Cloning of a new murine	
ļ	endogenous retrovirus MuERV-L with strong	
1	similarity to the human HERV-L element and	
j	with a gag coding sequence closely related	1
I	to the Fv1 restriction gene"	
,	XP002037954 the whole document	1-12,
Y	the Audia ancament	22-24, 26
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γ	LIEW ET AL .: "A catalogue of genes in	1-27
' 1	the cardiovascular system as identified by	
	expressed sequence tags"	i
	PROCEEDINGS OF THE NATIONAL ACADEMY OF	
ł	SCIENCES, USA.	
1	vol. 91. October 1994 (1994-10), pages	ŀ
l	10645-10649, XP002185728	
İ	table 2	
	Mile I	1-27
Υ	LIPSHUTZ ET AL.: "High density synthetic	1-2/
	oligonucleotide arrays"	
	NATURE GENETICS,	
}	vol. 21, January 1999 (1999-01), pages	
	20-24, XP002115232	İ
	NEW YORK, NY, US the whole document	1
	THE MHOLE COCCUMENT	į.
	DATSON ET AL.: "Scanning for genes in	
A	large genomic regions: cosmid based exon	
	trapping of multipleexpons in a single	İ
	product"	
	NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY	1
	PRESS.]
	vol. 24, no. 6, 1996, pages 1105-1111,	
	XP002081565	
	Surrey, GB	1
	the whole document	į
	and the second s	i
A]	WO 98 30722 A (MACK DAVID H.)	
	16 July 1998 (1998-07-16)]
	page 63, paragraph 2	ŀ
	Control Services	
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		1

International application No. PCT/US 01/00666

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. 🗌 🖁	Claims Nos.: secause they relate to subject matter not required to be searched by this Authority, namely:			
b a	claims Nos.: 1-12, 15-21 (partially not searched) ecause they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: See FURTHER INFORMATION sheet PCT/ISA/210			
з. 🔲 с	claims Nos.: ecause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II C	bservations where unity of invention is lacking (Continuation of item 2 of first sheet)			
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:			
s	ee additional sheet			
	s all required additional search fees were timely paid by the applicant, this international Search Report covers all earchable claims.			
	s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.			
	s only some of the required additional search fees were timely paid by the applicant, this International Search Report overs only those claims for which fees were paid, specifically claims Nos.: -27 (partially)			
4. Ne re	. o required additional search fees were timely paid by the applicant. Consequently, this international Search Report is stricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark or	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.			

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-12, 15-21 (partially not searched)

The following statements about the impossibility of performing a meaningful search according to Art. 17(2) PCT are made for the subject matter for which a search has been performed and identified as the first and second inventions in form 206 PCT.

Present claims 1-12 and 22-24 relate to an extremely large number of possible sets of nucleic acid probes comprising Seq. Id. 1 or 2 as well as microarrays comprising said sets. In fact, the claims contain so many possible permutations that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search for the sets of probes comprising Seq. Id. 1 or 2 has been limited to the Seq. Id. as such.

Claims 1-3, 5, 6, 8-15 and 18-24 relate to portions or fragments of nucleic acids defined by Seq. Id. 1 or 2. The length or other similar characterizing features of the portions or fragments is not disclosed, bringing the total number of possible prior art sequences to exceptionally high numbers. The shorter the length, the higher the possibility that an overflow of, in principle unrelated, sequences are retrieved, making the establishment of a meaningful International Search Report impossible. For this reason the search has been limited to portions or fragments of Seq. Id. 1 or 2 having a significant minimum length and being supported by the description, namely at least 15 contiguous nucleotides (se claim 16).

Claims 15-21 relate to an extremely large number of nucleic acid probes. The probes are defined solely by their potential to code for peptide Seq. Id. 19780. However, due to the degeneracy of the genetic code, every peptide is potentially coded by an extremely high number of nucleic acid sequences. In fact, the claims contain so many potential nucleic acid sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search over the whole scope of the claims impossible. The search has therefore been carried out for those parts of the claims which do appear to be clear and concise, namely the nucleic acid sequences disclosed in the application and identified as encoding the referred peptide in table 4 (Seq. Ids. 1 or 2 and 9989).

Likewise, claim 26, which refers to peptides encoded by Seq. Id. 1 or 2 and 9989, encompasses a high and undefined number of possible peptides. Besides three possible reading frames deriving from the encoding nucleic acid strand, as well as three additional reading frames deriving from the complementary nucleic acid strand, every possible fragment of these is being covered by the claim. This is due to the potential presence of stop codons within any of the six possible reading frames which can not be established a priori. Thus, claim 26 contains so many potential peptide sequences that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

over the whole scope of the claim impossible. Consequently, the search has been carried out for those parts of the claim which do appear to be clear and concise, namely the peptide disclosed, identified by Seq. Id. 19780.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1 - 27 (partially)

Invention number 1:

A nucleic acid probe comprising SEQ ID 1, complementary sequences or fragments thereof (in particular comprising Seq. Id. 9989). Spatially addressable sets of probes comprising said sequence, microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptide encoded by Seq. Id. 1 (in particular the one defined by Seq. Id. 19780).

2. Claims: 1 - 27 (partially)

Invention 2

A nucleic acid probe comprising SEQ ID 2, complementary sequences or fragments thereof (in particular comprising Seq. Id. 9989). Spatially addressable sets of probes comprising said sequence, microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptide encoded by Seq. Id. 2 (in particular the one defined by Seq. Id. 19780).

3. Claims: 1 - 27 (partially)

Inventions 3 - 9980

A nucleic acid probe comprising SEQ ID n (where n ranges from 2 - 9980 according to the invention number above), complementary sequences or fragments thereof, in particular comprising the SEQ ID no. which is listed in the column "Exon Seq. Id. no." in the same row that contains Seq. Id. n in table 4. Spatially addressable sets of probes comprising said sequence, microarrays comprising said sets, a method for measuring gene expression, a method for identifying exons, a method for assigning exons to a single gene comprising the use of said arrays and peptide encoded by Seq. Id. n, in particular the one defined by the Seq. Id. no. in the column "ORF Seq. Id. no." of the same row where Seq. Id. n is listed.

INTERNATIONAL SEARCH REPORT

Information on patent family members

rternational Application No

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9830722	A 16-07-1998	AU 6035698 A EP 0973939 A1 JP 2001508303 T US 6303301 B1 W0 9830722 A1 US 2002028454 A1 US 2002039739 A1	03-08-1998 26-01-2000 26-06-2001 16-10-2001 16-07-1998 07-03-2002 04-04-2002

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A2

(54) Title: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR ANALYSIS OF GENE EXPRESSION IN HUMAN HEART

(57) Abstract: A single exon nucleic acid microarray comprising a plurality of single exon nucleic acid probes for measuring gene expression in a sample derived from human heart is described. Also described are single exon nucleic acid probes expressed in the heart and their use in methods for detecting gene expression.